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MARCH 15, 1919

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See page 44

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Index to Advertisers, p. 5.

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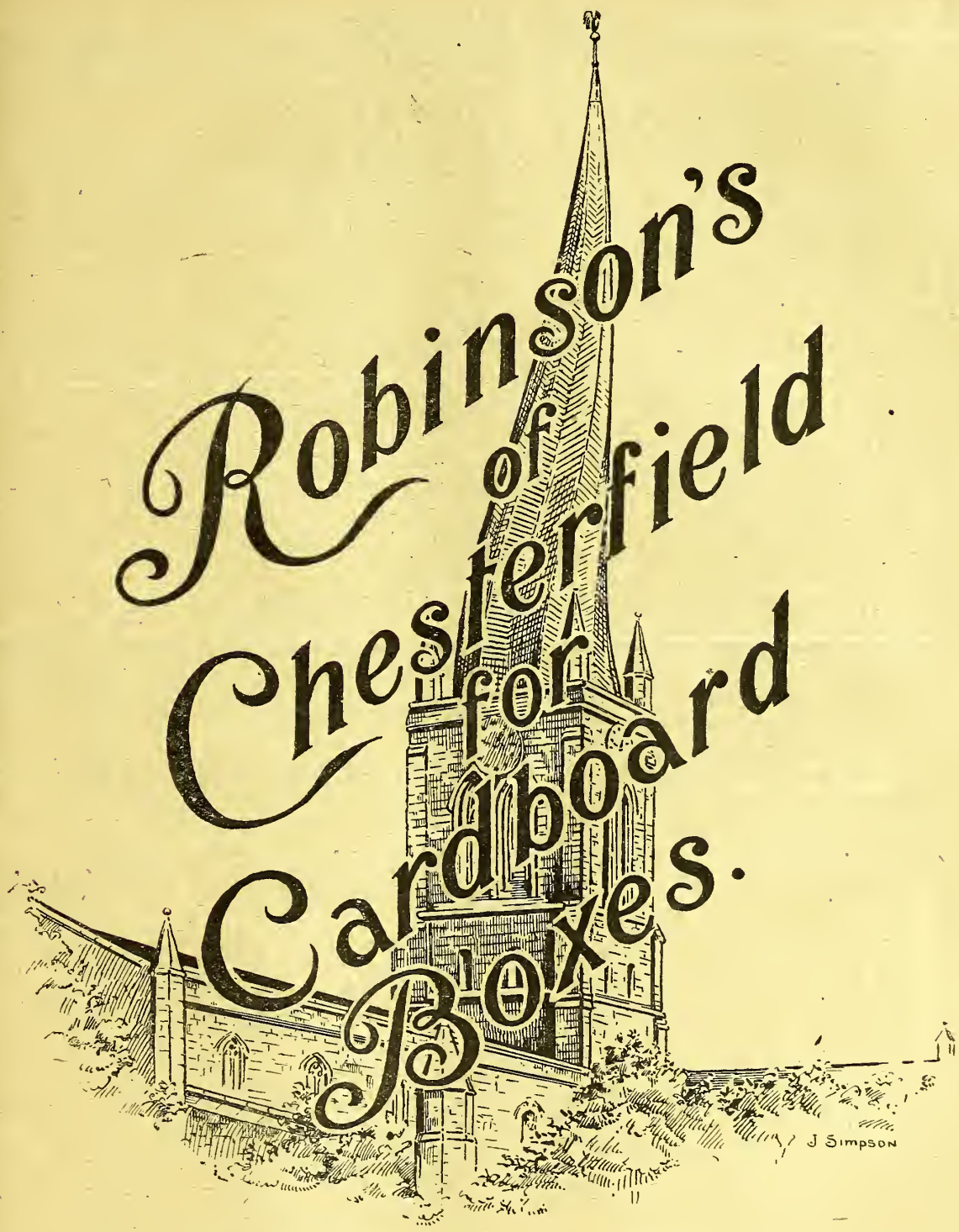

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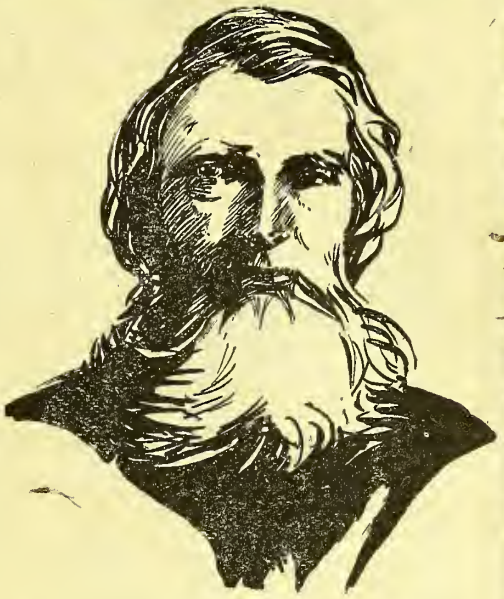

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INDEX TO ADVERTISERS IN THIS ISSUE

The Arabic numerals (1 to 46) in this Index refer to Advertisements in the front of literary pages the Advertisements following the literary pages are numbered in Roman numerals (i to xlviii).

Allcock Manufacturing Co., Plasters, &c. .. xl
Allen & Hanburys, Ld., Price Changes 2
Alliance Drug & Chemical Co., Drugs vii
American Commerce Co., Ld., Chemicals.... x
Amsterdam Quinine Works, Quinine ii
Anglo-French Drug Co., Ld., French Props. ix
Arnott, James, & Sons, Ld., Pet. Jelly 36
Ayrton, Saunders & Co., Ld., Sundries.. 15
Baker, Percy P., Camel-hair Brushes 42
Bandoeng Quinine Factories, Quinine Salts xiii
Barber, Reginald, Patent Agent ...... Text
Bath & West of England School 12
Beatley Societe Commerciale Chemicals.. xxv
Becker, Shillan & Co., Chemicals xix
Beecham, Thomas, Pills vii
Benool Trading Co., Inc., Saccharin xxix
Benjamin & Co., Liquid Paraffin xxvii
Benzoates, Ld., Benzoic Acid xiv
Berdoe & Fish, Chemists' Valuers, &c. Col. Supp.
Berk F. W., & Co., Ld., Acids, Chemicals.. xxv
Bidwell, Bidwell & Co., Brushware 21
Bishop, Alfred Ld., Piperazine Cit. 9
Blaorie, Robert, Ointment, &c. xli
Blagden, Victor, & Co., Chemicals xxi
Blythe, W., & Co., Ld., Epsom Salts vi
Bradford Wool Extracting Co., Phenacetin xlvi
Bramwell, E., & Son, Chemicals xxxviii
Brasse, E., Sea-Tangle Tents xl
Brett & Co., Transfer Agents ...... Col. Supp.
British Commercial Gas Association 41
British Rubber Manufactures, Ld. xliv
Brook, Parker & Co., Ld., Saccharin xvi
Browning, W., & Co., Ld., Liq. Paraffin xxiv
Brunner, Mond & Co., Ld., Alkalies v
[...]oboe, Warren & Bidoley, Ld., Sundries xli
[...]urrside & Co., Eucalyptus Oil 36
Burroughs, J., Ld., Absolute Alcohol ...... Text
Burroughs Wellcome & Co., 'Tabloid' 45
Bush, W. J., & Co., Ld., Perfumes, &c. 27
Butler, E. H., & Son, Cod Liver Oil, &c. ... xxii
Cadbury Bros., Ld., Cocoa ...... Cover
Camomile Tonic Co., Hair Dye 22
Carmichael, F J., & Co., Camomiles xxv
[...]mol Ld., Toilet 37
[...] George, & Co., Saccharine xv
[...]son Chemical Co. xxviii
[...]stle Tablet Co., Ld., Tablets & Pills .. xxiv
[...]telain, J. L., French Proprietaries xi
[...]mical Works Madoerry Ld., Chemicals .. xxv
[...]mists' Design Service 12
[...]bistaens, A., Agency, Drugs viii
[...]ristopherson, C., & Co., Tartaric Acid xii
[...]risty, T., & Co., Shampoo ...... 35, xxxviii
[...]al By-Products Co., Vaporisers xxiv
[...]oper Laboratory, Tablets xxiv
[...]oper, Son & Co Ld., Cachets xxxviii
[...]ookes' Laboratories, Collosols 6
[...]osfield, J., & Sons, Ld., Glycerine 21
[...]eta Mnfg Co., Towels xxxix
[...]D. Co., Ld. 22
[...]iry Sundries, Ld., Wood-pulp Discs .. xxviii
[...] Mnfg. Co. 28
[...]mancy & Co., Sacch. Digestives ...... xvi, xxv
[...]vis, W., Window Display Stands 14
[...] & Sons (Crewe), Ld., Proprietaries xlviii
[...] St. Dalmas, A., & Co., Plasters, &c. xxxviii
[...]rbrobs, Ld., Toilet Specialities 10
[...] & Olcott Co., Essential Oils 38
[...]o. R. Duncan, Bottles xl
Dubose, F. W., Bottle Caps xxix
Dyson, J B., & Sons, Ld. Containers 8
Elliott Optical Co., Optical Goods 41
Empire Perfumery Co. Solid Powder 35
Erasmic Co. Ld., Perfumery, Toilet Soaps.. 38
Eudermine Co., Toilet Cream 38
Evans, Adlard & Co., Ld., Papers 7
Evans, Gray & Hood, Spices and Drugs.. xxxiv
Evans Sons Lescher & Webb, Ld., Vaccines 44, Cover
Express Developing Co., Photographic .. xxix
Farrow & Jackson, Ld., ... 17
Fawcett & Co. Barley 17
Fennings, A., Fever Powders ...... Text
Ferber, ., Ld., Capsules xx
Fink F & Co Gums xxxviii
Fletcher Fletcher & Co. Ld., Tonic ...... Text
Forgrove Machinery Co., Ld. xxxiii
Forshaw, E., & Son, Ld. xxxii
Frame Food Co Ld Foods 16
Franses, J. J., & Sons, Ld. Waxes xxvi
Freeman Bro., Dentistry xxx
Friedmann, V. Chemicals xxvi
Fuerst Bros. Ld. Chemicals xxi
Fulford C. F. Ld., Ven-Yusa, Kernak 4, 19
Gardiner & Co., Sundries xv
Gardner W & Sons (Gloucester). Ld ... xxxii
Gaston Williams & Wigmore Ld. Saccharin xvii
Gates, Leslie Bottle Capping 28
Gibbins, R., & Co Sacch Tablets xvi
Gionoux Freres & Barbezat Drugs x
Gilbert, M. Essential Oils xxix
Gimber, W., Surgical Dressings xl
Glasgow School of Pharmacy 12
Gledhill & Sons Ld., Tills 18
Goodall, Backhouse & Co., Water Glass Cover
Goodman, G. Ld., Safety Pins] 30
Gower, J., Books ...... Col. Supp.
Grant, Hughes & Co. Saccharin xvi
Gareff, R. W. & Co Chemicals 7
Grove Chemical Co., Liquid Glues xxxiv
Harker, C. B., Stagg & Morgan Ld 21
Harley, T., Rat Poison Prop. Salt .. xxxiii, xlvii
Harper, C. W., Saccharin xiv
Harris, T. S., & Co Linseed Oil xxvi
Harbison & Sons, Printing xxxiv
Hart Brittain, J, Ld., Toilet Articles 32
Hawker & Botwood, Ld., Seed Dressing .. i
Hay, E. J., & Co., Caramel xxx
Hay, William, Ld., Essences xxxvii
Hayes, Conyngham & Robinson, Ld., Wines 17
Henry, T. & W., Calcined Magnesia xxix
Hertz, J., & Co., Essential Oils, Perfumery xlv
Hewlett, C. J., & Sons, Ld Pharmaceuticals 16
Hilger, Adam, Ld., Refractometers xlii
Holland's Distillery Ld., Essential Oils .. 31
Holliday, L. B., & Co., Fine Chemicals xxiii
Hoisring, C. L., American Drugs xxii
Hunter & Gow, Fertilisers 43
Idris & Co., Ld., Aerated & Mineral Waters xxxvi
Ilott, J., Ld., Agency viii
Imex Corporation, Saccharin xvii
Jackel et Cie (Paris), Ld., Hair Cream 39
Job Bros., Cod Liver Oil, Newfoundland .. 42
Johnson, A., & Co. (London), Ld. xii
Jones, Samuel, & Co., Gummed Paper 14
Josephs, Philip, & Sons, Ld., ... Col. Supp.
Kay Bros. Ld., Proprietaries xxx
Kerne Co., American Drugs, &c. xviii
Kalos, Liquorice xxxv
Kerfoot, T., & Co., 'Flu Remedy 23
Kirby, H. & T., & Co., Ld., Aspirin Tablets.. xix
Knox-Walker, & Co., Ld xxxviii
Lang, Jones, & Son, Glassware 42
Langley-Smith & Co., Oils, Waxes, &c. xxvii
Lanrshear, Wickstead & Co., Ld., Tart. Acid xxvi
Lazard-Godchaux Co., Ld, Colours xii
Leroza Theatrical Stores 43
Lescol Perfumery Co., Perfumes, Soaps .. 39
Levermore, A., & Co., Ld. xxxviii
Lewis, A. J. C., Photographics xlvi
Liver Razor Co., Safety Razors xlvi
Lloyd, H. O., Toilet Goods 40
Lofthouse & Saltmer, Ld., Health Salt .. 20
Lonaparc Trading Co., Essential Oils xxii
London Hygienic Chemical Co., Ld. 43
Lonsdale & Thompson (1916) Ld., Olive Oil xxviii
McDougall Bros., Ld., Dog Medicines 13
M'Glashan, D., Fruit Drink xlvi
McKesson & Robbins, Drugs iv
Macandrews & Forbes, Ld., Liquorice .. xxxv
Maiden, A. E., Gelatines xxxiv
Mallinckrodt Chem. Works. xx
Malmberg, K., Aspirin xiv
Martin & Co., Toilet Specialists 43
Maw, S., Son & Sons, Ld., Toilet 11
May & Baker, Ld., Chemicals ...... Cover
Midgley, Chas., Ld., Soaps 29
Millar, A., & Co., Ld., Wines xlvi
Mills, J Q., Surgical Dressings xl
Mond Nickel Co. Copper Sulphate .. xxii xlvii
Monsanto Chemical Wks, Saccharin, Aspirin iii
Moore's Modern Methods, Book-keeping.. 14
Nalborotob & Sons, Ld., Casein xlvi
Narotam, Girdhar & Co., Indian Drugs .. xxv
Natan & Co., Agency viii
Naumann, W., Essential Oils ...... Text
Newball & Mason, Herb Extract 43
Newbery, F., & Sons, Ld., Embrocation .. 28
Newton John M., & Sons, Glass xxxii
Nichol's Chemical Co., Ld. vi
Nieuwhop, Subie & Co., Ld., Casein xlvi
Ni-Verre Chemical Co, Liniment, Corn Cure 34
Norwich Crepe Co. (1856). ..Ld. xl
Odol Chemical Works, Dentrifrices 32
Orisal, Ld., Dental Antiseptic 34
Oylers Ld., Rubber Goods xliii
Page, Chas., & Co., Chemicals xxiii
Paine & Co., Ld., Malt Extract ii
Papier Poudre, Ld., Toilet Preparations .. 26
Parson's Glass Works, Bottles xl
P.A.T.A., Price Changes 20
Pears, A. & F., Ld., Soaps 5
Pelliot, H., & Cie, Cream of Tartar, &c. ... xxi
Penick, S. B., & Co., Inc., American Drugs xiv
Perry & Hope, Ld., Oils xv
Peruana La, Cocaine xi
Petri Bros., Chemicals xiv
Picerno, V. A., Chemicals xxv
Picrard, Ive & Rankin, Ld., Aspirin vi
Pillischer, J., Thermometers 13
Polson, N. C., & Sons, Ld. Agency viii
Poulenc Freres, Stovaine 9
Powell, F. W., Drugs and Chemicals 22
Prior, A. S., & Co., Ld., Tea Sweeteners .. xv
Prone, Davis & Rusby Saffron, &c. 38
Raworth, J E., Patents xxxviii
Ransom, W. & Son, Ld., Tinctures, &c. .... Cover
Reddgrave, Butler & Co., Liquid Paraffin Cover
Redio Co., Polishing Cloths 13
Rendell W. J., Pessaries xlii
Rigaud-Chapelle, French Proprietaries 33
Rigollot, Mustard Leaves xlvi
Robinson & Sons, Ld., Boxes, Cartons 1
Rubeck, H., Essential Oils ...... Text
Rudduck & Co. ...... Col. Supp.
Sanitas Co., Ld, Disinfectants ...... 2, Text
Shadeine Co., Hair Dyes xxxviii
Sim, Ld., Ampoule Files xx
Smith, Maurice, & Co., Ld., Skin Soaps xlvii
Smith's Advertising Agency 13
Smith, Stanistreet & Co., Indian Drugs, &c. ii
Smith, T. & H., Ld., Alkaloids x
Solazzi, Liquorice xxxv
Solport Bros., Ld., Puffs 30
Spencer, Heath & George, Gymnasia xxviii
Sterns, Ld., Oils, Waxes 2
Stevenson, Hood, & Co., Ld., Boxes 13
Stipendium Stopper Co., Boxes, Stoppers .. 28
Strode Cosh & Penfold, Vanishing Cream 22
Sturge, John & E., Ld., Precipitated Chalk iv
Swales, Thomas, Loofahs 20
Swiss Bank Corporation, Banking xx
Taylor, A. A., & Co. xlvii
Texalo Mfg. Co., Varnish Stains xxxiii
Thermoogene Co., Ld., Warming Wools 8
Thomas, Ch., & Bros. Ld., Glycerine 25
Thompson & Capper, Ld., Water Still xxxii
Thornley, S., Ld., Methylated Spirit 36
Tidman & Son, Ld., Sea Salt 41
Timpson, John, & Co., Ld., Jackets xliii
Titterton & Howard, Brushware (all kinds) 30
Tolkowsky, S., Russian Crude Drugs, &c. .. xviii
Tomlinson & Hayward, Ld., Water Glass Text
Tomlinson, Thos., & Son, Valners .... Col. Supp.
Toogood, Wm., Ld., Toilet 37
Ugal 3
Violiv Mfg. Co., Toilet 22
Viscose Co., Ld.; Bottle Cappings 30
Vitamogen, Ld., Invalids' Food 17
Walton, T. H., & Co., Ld., Sacch. Tabs. .. xvii
Warrick Bros., Ld., Cachets, Capsules, 46
Warrington Chemical & Drug Co., Sal. Acid xxi
Washington Chemical Co. Magnesia xxix
Watford Mfg. Co., Ld., Turtle Extract .. 16
Watson & Co., Photographic ...... Col. Supp.
Watson & Co., Saccharin Tablets xv
Western Dental Manufacturing Co. xlvii
Westminster College of Pharmacy 12
Whiffen & Sons, Ld., Emetine Salt xiii
Whipman P., & Co., Drugs and Chemicals xix
Whitaker & Co., Dyes 32
White, J. & J., Bichromates xxi
White, Tomkins & Courage, Ld., Hop Oil 36
Wigglesworth & Co., Tablets ...... Cover
Wilkinson, S. W., & Co., Tablet Machinery xxxi
Williams Bros., & Co., Aniline Dyes 24
Willows, Francis, Butler & Thompson, Ld. Drug Grinders, Disinfectants, Foods xxii
Wilson, Talbot, Proprietary 30
Winox, Ld. Wine 16
Wyleys, Ld. ...... Cover
Zenobia, Ld., Perfumes 39
Zimmermann, A. & M., Drugs, Anilines xi
Zimmermann, Chas., & Co. (Chemicals), Ld., Chemicals, etc. xxx

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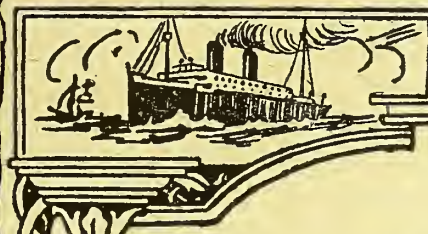

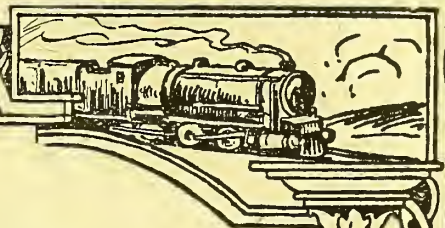

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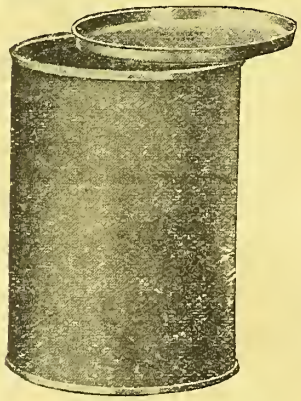

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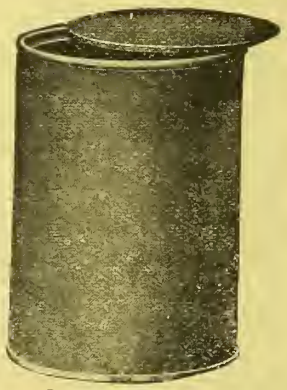

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Cheaper than Novocain and Benzocain and obtainable promptly in practically unlimited quantities from the manufacturers:

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BISHOP'S PIPERAZINE CITRATE

A REMEDY OF ESTABLISHED AND DEFINITE VALUE

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Prescribed by the British Medical Profession for 20 years.

The undoubted superiority of Bishop's Piperazine Citrate, and preparations containing it, is due to the stability of the salt, Piperazine Citrate, which, being non-volatile and non-hygroscopic, undergoes no change upon exposure to heat or moisture, and thus lends itself to all manufacturing and dispensing processes.

Piperazine base, on the contrary, is so volatile and hygroscopic that it cannot be manufactured or dispensed with any degree of accuracy. Hence the unreliability of all Piperazine preparations that are not made with Bishop's Piperazine Citrate.

PIPERAZINE CITRATE IS MADE ONLY BY ALFRED BISHOP, LTD.

Bishop's Piperazine Citrate is the most powerful uric acid solvent known. It neutralises twelve times as much uric acid as any other alkaline solvent, and the resulting Piperazine urate is eight times as soluble as any other urate.

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WE CAN, HOWEVER, SUPPLY PIPERAZINE BASE IN LARGE OR SMALL QUANTITIES, FOR MANUFACTURERS WHOSE PROCESSES CALL FOR IT.

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MARCH 15, 1919.

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is the favourite dentifrice among an ever-growing number of the discriminating public.

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Principal: MALCOLM M. IRVINE, Ph.C.,
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The Principal begs to announce that the School has been removed to more commodious premises at

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SPECIAL DEMOBILISATION ARRANGEMENTS.

A complete Six Months' Course for the October Examination will commence on April 7th.

Ex-Service Men may have Fees and Maintenance arranged for under the Government scheme. *ENROL NOW.*

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Finger Nail Cloths.

They give a brilliant, lasting polish without pumice, dust, or grease. Beautiful finger nails give the finishing touch to a cultured hand.

Of all Chemists, Hairdressers, etc.

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BOXES OF 1 doz. 1/6 packets, 12/- per box. On P.A.T.A. list.

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A Booklet describing this system will be sent free on request.

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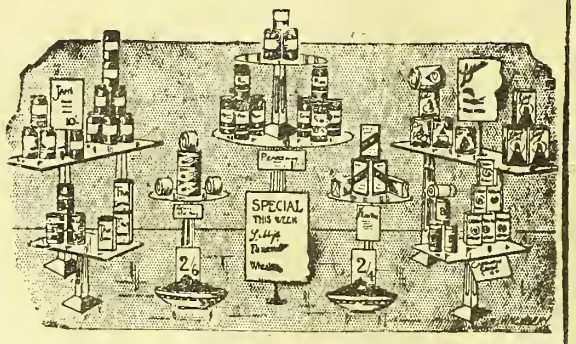

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Our Star, Mortar, and Anchor reserved series labels have proved very popular, and quite a number of our friends who took up a series label with diffidence have become hot enthusiasts.

There are a few towns where these labels are not reserved, and we invite inquiries from Pharmacists who are desirous of seriously handling the PACKED GOODS business.

As a result of the popularity of the Star, Mortar, and Anchor, we have been compelled to introduce an additional series—The Purple Key, and this label is now available for registration.

Practically all your PACKED GOODS and TABLETS can be had under the Label that is reserved to you!

AYRTON, SAUNDERS & CO. LTD.
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WINOX
Wine Food

is a high-class Pharmaceutical Wine, containing all the food elements of Meat, Malt and Unfermented Grape Juice.

Unsurpassable for Influenza; invaluable for Anæmia, Lassitude, Neuralgia, Nerve and kindred troubles.

Winox will stand any climate, and contains no harmful drugs.

Price 5/6 per bottle retail. Chemists who do not already stock Winox should apply for price to WINOX, LTD., Richmond, Surrey.

Recommend it for Convalescence

Doctors prescribe Turtle Soup in all cases where the patient cannot retain any other nutriment.

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is the real meat of selected West Indian Turtles, compressed into handy tablets; it provides all the delicacy and nourishment of soup made from fresh killed turtles, and is quickly prepared as it requires nothing but boiling water.

For hospitals, nursing and convalescent homes it can be strongly recommended as the best, safest and handiest invigorator obtainable.

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Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

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Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

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No. 1.	1½ oz. Tin ..	9/-	per doz.
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Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

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VITAMOGEN contains the essential *Vitamines* in an active and concentrated form. VITAMOGEN is in itself a food of the highest potency, rationally concentrated according to approved scientific methods. It is rich in organic, i.e. assimilable Phosphorus, and the proportion of nutritive constituents is well balanced to meet the physiological needs of the organism.
VITAMOGEN stands alone as a means of supplying the Vitamines — an entirely new food element.
VITAMOGEN is packed in two sizes, 2/- and 4/6, obtainable from all the principal wholesale houses.
VITAMOGEN owes its origin to our Chairman, who, 20 years ago, invented Virol, the well-known Invalids' Food.

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If you would safeguard yourself against the attack of the death-dealing epidemic which has accounted for no fewer than **100,000 DEATHS in 8 WEEKS** in this country alone, look to your health. Keep physically fit, avoid colds, chills, and give tone to your nervous system.

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taken three times a day will strengthen, fortify and tone the whole system, and ensure that vim and vigour to enable you to ward off attack and render you immune from infectious diseases. All leading Doctors and Practitioners advocate **FORT-REVIVER** as a preventive against Influenza and Infectious Diseases. Obtainable everywhere. **5/6** Large Size Bottle; **3/9** Smaller Size Bottle.

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FAWCETT'S Natural Process BARLEY

Purely Barley, and purely British, not a patent or chemically-treated food. Recommended for delicate digestions at all ages. Sells on sight.

UNRESTRICTED DISTRIBUTION.

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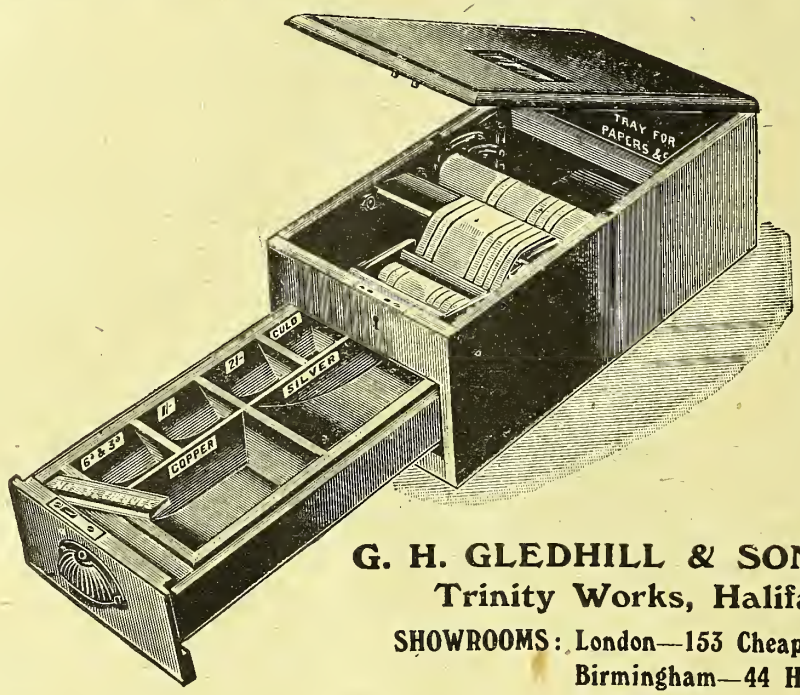

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GLEDHILL Tills have been almost unprocurable during the war. We decided that it was more important to win the war than make cash tills, so turned our works over to the production of fine accurate munition work. Our experimental work was also turned over to war purposes, and early in 1917 Mr. A. H. Gledhill invented the Bomb-releasing Gears which are now standard on British Aeroplanes. We have manufactured enormous quantities of these gears. Our plant has been considerably augmented, and we are consequently enabled to make the Best Cash Till Better Still. We thank our customers for their patience, and are now endeavouring to clear off arrears of orders at full speed.

Order now to secure delivery immediately after the arrears in our books have been cleared.

G. H. GLEDHILL & SONS Ltd., Halifax

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IN YOUR WINDOW NOW!

EXPENSIVE MODEL LENT FREE.

This beautifully coloured figure, standing 24 inches high, will be sent securely packed in crate, carriage paid, to every chemist purchasing **Ker-nak Pills to the value of 50/-.** These will be supplied on the usual Window Show Terms of 5 per cent.

The only stipulation is that, after 2 weeks' show, the Ker-nak Boy must be sent to a new address which will be supplied.

ORDER FORM.

NAME .....

Address ..... *Date* .....

To Messrs. C. E. Fulford, Ltd., Carlton Hill, Leeds.

Please send "Ker-nak Boy." I agree to give 2 weeks' window display, and forward the figure (carriage at your expense) to a new address which will be supplied. I enclose order which includes at least 50/- value of Ker-nak.

Yours truly,

Signature .....

PRICES OF KER-NAK: 1/3 size, **12/6** doz.: 3/- size, **28/-** doz. (Minimum Prices Face Value)

P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

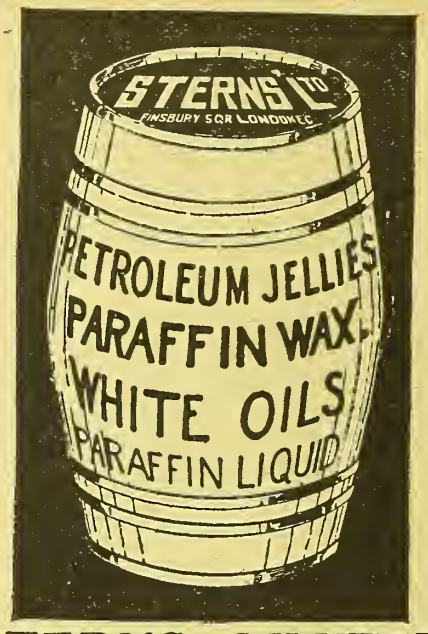
Advertised Price			Minimum Retail Price.	Minimum Wholesale Price.
1/6	"Allenburys"	Feeder	1/6	13/6
1/-	,,	Feeder Holder	1/-	9/-
2d.	,,	Regulators	2d.	1/6
11d.	,,	Spare Bottles	11d.	8/3
4d.	,,	,, Teats	4d.	3/-
3d.	,,	,, Valves	3d.	2/3
3d.	,,	Teat Clips	3d.	2/3
2d.	,,	Teat Shield	2d.	1/6
9d.	,,	Woollen Feeder Suspender	9d.	6/9
9d.	,,	Powder Gauge	9d.	6/9
2/3	,,	Thermometer	2/3	20/3
1/3	,,	Nutrient Lozenges	1/3	11/3
1/6	,,	Beef ,,	1/6	13/6
1/3	,,	Barley Flour	1/3	11/3
1/9	,,	Meat Soup Squares	1/9	15/9
3/6	,,	Liquid Beef	3/6	31/6

The above prices came into force on March 8, 1919, and show an increase in profit to retailers from 20 % to 25 %.

The following will come in force as from the date of this issue :—

Smith, Maurice, & Co.'s Preps. :—

10d.	(pkt.)	"Gestivo" Malted Food	10d.	6/6
1/6	,,	,, ,,	1/6	10/6
1/-	(tins)	,, ,,	1/-	8/6
1/9	,,	,, ,,	1/9	12/-



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BUY NOW FOR THE SEASON.

LOOFAHS

	Gross lots.	Doz.
8" to 10",	21/-	2/-
10" to 12",	27/-	2/6
12" to 14",	36/-	3/6
14" to 16",	48/-	4/6

TRANS. ALL-RUBBER SOOTHERS

2/3 doz. **24/-** gross lots.

Sell readily at 4½d. each.

THOS. SWALES,

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24 Butts Court, and 89 Albion St., LEEDS.

Telephone: No. 22260.

LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants, Manufacturing Chemists

HULL.

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net
*LOSALL'S SALT (well advertised), tins	9d.	6/6
* ,, ,, ,, ,, bottles in cartons	2/-	16/-

**Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.

	Box.	Doz.
A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box for 8d.	2/-	18/-

CROSFIELDS'
CHEMICALLY PURE GLYCERINE.
PYRAMID BRAND.

The finest Glycerine obtainable for medicinal purposes. Absolutely pure. Guaranteed to stand all the tests of the British Pharmacopœia.

IN 14 lb. 28 lb. & 56 lb. TINS. (WOODEN CASES)
1, 2½, 5 & 10 CWT. DRUMS. (RETURNABLE)

JOSEPH CROSFIELD & SONS LTD Chemical Manufrs. WARRINGTON.

BIDWELLS
LIMITED.

Will friends kindly note that our old Silverdrawn brand of Tooth Brushes are now stamped "GLORIA" SILVERDRAWN and that this title is registered.

Head Office & Factory:
AXMINSTER, DEVON.

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Bush Lane House, Cannon St., E.C. 4.

OVER 100 % PROFIT
ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount.
1/6	1/6	9/-	
2/6	2/6	15/-	
3/6	3/6	21/-	

SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

Sole Proprietors—
C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.1.

REPUTATION COUNTS.

"Camilatone" Camomile Tonic SHAMPOOS

are the most popular hair beautifying preparations on the market.

PROFITABLE LINES.

Once sold, always asked for.

1/- line, for brightening only,		7/-	per doz.
5/6	" " "	42/-	"
2/-	" for warmer shades	14/-	"
5/6	" " "	42/-	"
1/6	" for the Nursery	10/-	"

5 packets in box.

Supplied direct by

The CAMOMILE TONIC Co.

16 Lichfield Rd., Cricklewood, N.W. 2

D.D.D. Prescription

NOTICE TO THE TRADE.

At the request of a large number of our customers throughout the country, we have, from Jan. 1, 1919, fixed the retail price of D.D.D. Prescription at Face Value,

viz : **2/9 5/- 12/-**

We doubled our advertising appropriation in 1918 with more than double turnover. In 1919 we will double our 1918 advertising.

There is no risk in stocking D.D.D. Prescription. We will take back *all* our goods, at *any* time, at *full* invoice price, and will pay carriage back.

In every way, ours is a clean profit-making proposition to the Retail Chemist.

D.D.D. Co., Ltd.

3, 5, 7 Fleet Lane, London, E.C. 4.

SELLS QUICKLY AND Brings Custom

VIOLIV ICE, for Chapped Hands, Frostbite, etc., has secured a ready sale and many repeat orders. Every Chemist should stock it.

Attractively packed in tastefully coloured cartons, suitable for counter and window displays. Showcard and window-bills free with each order. The Showcard sells the goods.

A profitable line, retailing at 4½d. per packet, and costs 36/- per gross, with a Free Bonus of 3 dozen with each gross for cash with order. Half-gross lots with 1 dozen bonus 18/- carriage free. Prompt and quick dispatch.

VIOLIV ICE is so good that it makes a customer, and is noted for its repetitionary powers.

THE VIOLIV MANUFACTURING CO.

26 Haymarket Terrace, EDINBURGH.

"Strodonia" VANISHING CREAM

For displaying a small showcard, we make the following offer on INITIAL DIRECT ORDERS (One parcel only):—

1½ dozen	7½d.	selling for	11 3
¾ "	1/-	" "	9 0
			20 3

For 10/- cash with order, carriage paid.

7½d. and 1/- - - - 5/6 and 9/- per dozen.

From London Wholesalers.

Direct Orders value £5 subject to 10% discount and 1 doz. 1/- size bonus for window display, showing 38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists LOWER UNION ST., **BRISTOL.**

Codes: A B C, 4th & 5th. Telephone: Hop 334.

Telegrams: "Aniseed, Friars, London."

F. W. POWELL, M.P.S.,

85 Blackfriars Road, London, S.E. 1.

Chemicals (Pharmaceutical and Technical)

Drugs, Oils, Waxes

and General Produce.

Correspondence invited where specially large quantities are required or offered.

Special Quotations to Manufacturers and Exporters.

The Success of "Vapex"

is now assured as a prophylactic against "'Flu." "Vapex" is no longer an untried novelty, having come triumphantly through the epidemics of 1918.

"Vapex" is a "Handkerchief" Cold Cure that possesses the remarkable property of gaining in strength and effectiveness on exposure to the air, thus making it most economical in use. Its odour is quite pleasant, being free from any suggestion of eucalyptus or pine :: ::

P.A.T.A. Retail Price **2/-**

Why "Vapex" appeals to the busy Chemist

• • •

"Vapex" is effective, attractive and profitable. Display outers and show-cards are freely supplied and "Vapex" is advertised continuously in about thirty journals.

Sample and Trade Price Free on :: Application.

THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1767.

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FINEST **BLACKS** AND

COLOURS

(ALL SHADES)

CARAMEL COLOUR

IN POWDER.

Guaranteed Harmless.

50

times the concentration of Liquid Caramel.

Sample on application.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
GLYCERINE NAPHTHA
PETROLEUM CREOSOTE

and

IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

ETERNITE

A combined Stain and Preservative for Wood.

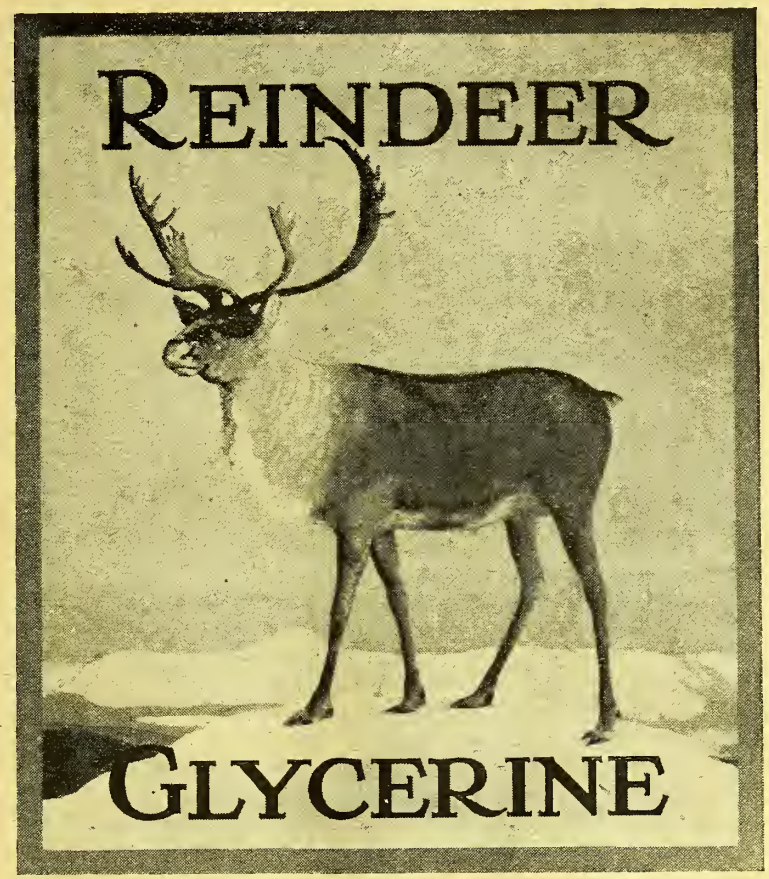
HOUSEHOLD DYES.

RHEUMSOL BATH SALTS

in 1/- Tins.

WILLIAMS BROS. & CO.

Hounslow, Middlesex.



¶ We would be honoured by your request for sample of Reindeer Chemically Pure Glycerine and particulars of our service.

CHRISTR. THOMAS & BROS., LTD
Distillers of Reindeer Glycerine
BROAD PLAIN, BRISTOL
Established 1745

PAPIER POUDRÉ

AND "POPPŒA" PREPARATIONS.

Trade Marks

"LEHCARESOR."

Papier Poudré

BRITISH MADE GOODS

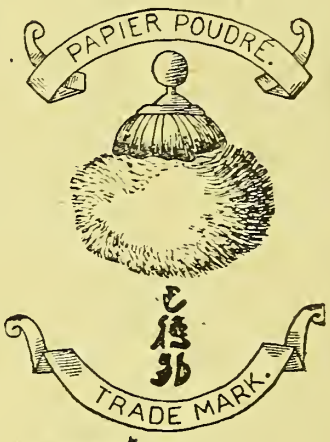
Our Sunburn Tint

For Landworkers

Booklets - - - **8d. & 1/4**
5/- & 10/- per doz. net.

Beware of Spurious Imitations.

Registered



PAPIER POUDRÉ, Ltd.,
20 Baker St., Portman Sq., London, W.
and in Paris.

NOTE OUR TRADE MARKS, AS ABOVE.

NEW PAPIER POUDRÉ PRICES.

In WHITE or RACHEL TINTS, 4d. & 6d. size Booklets @ 2/8 & 3/9 per doz. respectively.
In WHITE, ROSE, or RACHEL TINTS, 8d. & 1/4 size Booklets @ 5/- & 10/- per doz. ,,
SUNBURN TINT, 8d. and 1/4 sizes only, 5/- and 10/- per dozen net.

NEAT 1/4 MIRROR CASES, containing pads of Papier Poudré, 10/- per doz. net.
REFILLS to these Mirror Cases ... ... 2/8 ,, ,,
8d. SHAVING PADS (unscented, white only) ... ... 5/- ,, ,,

THE ALL-BRITISH "POPPŒA" PREPARATIONS.

NEW PRICES.

"Poppœa" ROUGE is most popular. It is put up in most convenient form, and is Nature's Understudy.

IN PADS, 8d. and 1/4 each. IN MIRROR CASES, 1/4 each, 10/- per doz. net.
5/- and 10/- per doz. net respectively. Refills, 3/9 per doz. net.

"POPPŒA" MASSOLINE SKIN FOOD, in Jars, 1/2, 2/6 & 3/6 each; 9/6, 24/- & 28/- doz. net respectively
"POPPŒA" CIRCASSIAN CREAM ,, 1/2, 2/6 & 3/6 ,, 9/6, 24/- & 28/- ,, ,,
"POPPŒA" CRÈME POUDRÉ, in Bottles, 1/2 & 3/6 each; 9/6 & 28/- doz. net respectively.

PAPIER POUDRÉ, Ltd., 20 BAKER STREET, PORTMAN SQUARE, LONDON, W.1.

A DAINTY BRITISH PERFUME
OF GREAT FRAGRANCE.

POTTER & MOORE'S MITCHAM LAVENDER WATER

Established - 1749.

Prices:	17/-	30/-	54/-	78/-	136/- doz.	21/- each	
RETAIL P.A.T.A.	2/-	3/6	6/6	9/-	16/- each	30/- each	

Pocket Flasks 25/- doz. RETAIL P.A.T.A. 3/- each.

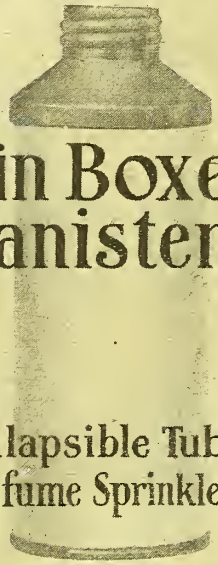
Sole Proprietors:—

W. J. BUSH & CO., Ltd.

Ash Grove, Hackney, London, N.E.

DISTILLERY —— MITCHAM, SURREY.

BRITISH MADE



Tin Boxes Canisters

Collapsible Tubes
Perfume Sprinklers

THE JOHN DALE MFG. CO.
New Southgate, LONDON. N.

"Newbery's"
FRANCIS NEWBERY & SONS LTD

Cream Embrocation

GOOD REPEATER

Giving clear profit of 33⅓ per cent. on Protected Retail Prices.

QUALITY	-	RIGHT
PRICE	-	RIGHT
PROFIT	-	RIGHT

PRICES (P.A.T.A.):

1/3 Retail	....	10/-	per dozen.
2/3 ,,	....	18/-	,,

CHARTERHOUSE SQUARE,
LONDON, E.C.1.

IMMEDIATE DELIVERY

GATES' BOTTLE CAPPING SKINS

ALSO GOLDBEATER'S SKIN FOR MEDICAL PURPOSES.

THE CHEAPEST & MOST EFFECTIVE CAPPING EVER PRODUCED.

SNOW-WHITE OPAQUE ROLLED SKINS.

SOMETHING QUITE NEW. These Skins are damp and READY FOR USE. The raw material for Baudruche manufacture being now unobtainable, I have put this new production on the market in its place. ABSOLUTELY AS OPAQUE as Split skins and equal in appearance.

"Mine beat all others."

Sole Pioneer and Only English Manufacturer :

LESLIE GATES
HAILSHAM, SUSSEX.

Another New Specialty.—Try my TRANSPARENT SHEEP BAUDRUCHE CAPPING SKINS.

STIPENDUM CORK STOPPERS

in all sizes suitable for
KALIS, CITRATES, DISPENSING, and all FLUIDS.

STIPENDUM COVERED POTS

THE BEST FOR FACE AND TOOTH POWDERS, PASTES AND OINTMENTS.

GREASE-PROOF.

Proprietors :
THE WALLPAPER MANUFACTURERS, Ltd,
For Samples and Particulars apply to
THE STIPENDUM STOPPER WORKS,
STEPHENDALE ROAD,
FULHAM,
LONDON,
S.W. 6

Lead from Strength!

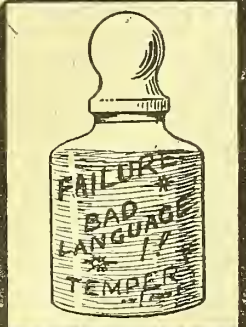
No Apology

is necessary for quoting the above well-known Bridge maxim, because there is much in common between Scientific Bridge and Scientific Business. In both there is a flavour—a zest—a *joie de vivre*—for the keen player which is denied the unversed or apathetic participant.

The game is never the same; the campaign not always to the lucky; the result seldom foregone, and in both philosophy has its place.

Only in the one have you—to an extent—the choice of cards, and believing we hold a strong hand we invite our fellow-players to participate in these.

MIDGLEYS Pharmacist Soap Makers **MANCHESTER** Estd. 1833



BOTTLE UP YOUR WRATH at the shortcomings of ordinary cappings, and cap the bottle with a

SEMREH

BOTTLE CAP

You will have No More Trouble!

Details from The VISCOSE Development Co., Ltd., BROMLEY, KENT.

'Ongard' Guarded Coil Safety Pins RUST PROOF.

REGD TRADE MARK

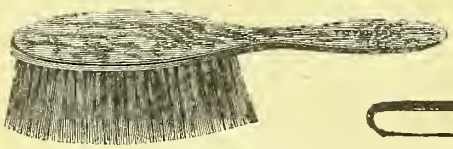
For Surgical & Nursery Purposes.

SOLE MANUFACTURERS

GEORGE GOODMAN LTD., BIRMINGHAM.

Stocked by JAMES L. HATRICK & CO., LTD., 70 St. John St., Clerkenwell Rd., LONDON, E.C. 1.

Titterton's Celebrated TOILET Brushware



TITTERTON & HOWARD, Brush Manufacturers, 8 & 10 Great Titchfield St., London, W. 1.

FACTORY: ALBION WORKS, DALSTON LANE, E. 8.

WE ADVISE YOU TO STOCK OUR

"MOOVIT" CORN PENCILS

which are being extensively advertised. This continual advertising, proven merit, and satisfied customers, have created a steady demand. We furnish attractive showcard and window bills. Why not keep a supply and profit by the easy sales created?

Try a sample dozen 10/-; sells at 15/- which gives you a very handsome profit, and is on the P.A.T.A.

Cash with Order. All goods are carriage paid. The time to order is now, while you have the matter before you.

TALBOT WILSON, 20 HIGHGATE ROAD, LONDON, N.W. 5

FOR

Powder Puffs

OF EVERY KIND.

SOLPORT BROTHERS LIMITED,

Wholesale and Export Manufacturers of Druggists' Sundries and Toilet Accessories,

184 to 190 GOSWELL ROAD LONDON, E.C. 1.

TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniper Berry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CITRAL

EUCALYPTOL

CINNAMIC ALDEHYDE

GERANIOL

HOLLANDS DISTILLERY, Ltd.

Lavington Street, Southwark, London, S.E. 1.

A B C Code (5th Edition), Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: HOP 898.

***AMERICAN AGENTS*—O. A. BROWN CO. INC., 99-101 Beekman St., New York.**
***CANADIAN AGENTS*—F. S. JARVIS & CO., 18 Toronto Street, Toronto.**

1/-

Make your old Hat a new one.

In bottles, 1/- each, in separate neat cartons, with suitable brush.

These Dyes are a distinct invention, dyeing the straw without an objectionable varnished appearance, and producing the effect of new goods.

NO GLOSS. NO POLISH.

On the P.A.T.A.

WRITE FOR TERMS, PATTERNS, ALSO LEAFLET OF TESTIMONIALS.

"Luton" HAT DYE

WHITAKER & CO., COLOUR WORKS, KENDAL, ENG.

London Depot: 50-63 Clerkenwell Road, E.C.

"Glossy" Series supplied if desired.

Special Non-Inflammable Series for Export. Est. 1878

Telegraphic Address: "Dullette Kendal." Telephone: No. 214.

ANOTHER HOME ARTICLE OF GREAT UTILITY.

"LUTON"

Household Dyes

FOR HOME DYEING.

All these colours will dye either Wool, Silk or Cotton, or mixture of these. No separate dye required for each material. Easy and clean to use. No acids or preparation required. Make home dyeing a matter of interest and pleasure.

A standard range of 12 Colours; other shades supplied.

IN PACKETS, 2d., 3d. and 6d. each, and in Bulk.

Pattern Book. Write for Terms and Patterns.

WHITAKER & CO., COLOUR WORKS, KENDAL, ENG.

London Depot: 60-62 Clerkenwell Road, E.C.

Telegraphic Address: "Dullette Kendal." Telephone No. 214.

ESTABLISHED 1878.

Proprietors of the "Luton" Straw Hat Dyes.

KO-TAL-KO

IS ASKED FOR EVERY DAY BY YOUR CUSTOMERS

Stock "KO-TAL-KO" because

You cannot offer or sell a more effective hair restorer and maintainer—one more natural in its principles and certain in its effects.

Your regular customers will want it from you, and if they do not obtain it at your store will be tempted to go elsewhere.

You will never have your stock of "KO-TAL-KO" tying up your capital uselessly—on the other hand, your repeat orders quickly follow.

My trade terms will suit you, for they allow you to make your proper and deser ved profit, and you are working on sound business all the time.

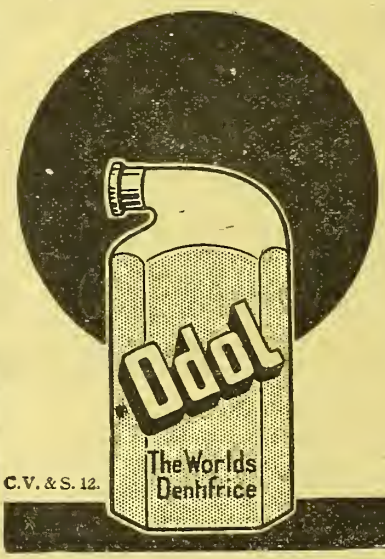
NOTE TRADE TERMS (P.A.T.A.)—

5/- Size ... ... 48/- per dozen
12/6 ,, ... 112/6 ,,

J. HART BRITTAIN, Ltd.
(Dept. C.D. 1),
2 PERCY ST., LONDON, W.1

KO-TAL-KO

BRITISH ODOL



Send for Price List and Trading Terms.

Revised Retail Prices.
Grand Double Flask 5/3
Full-size Bottle 3/-
Half-size Bottle 1/9

ODOL Chemical Works, BERKHAMSTED.

C.V. & S. 12.

LABORATORY OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.

LONDON AGENTS:
WILCOX, JOZEAU & Co., 49, Haymarket, S. W.

CHAPOTEAUT'S CAPSULES of PHOSPHOGLYCERATE of LIME.

THE BEST TONIC FOR FORTIFYING AND BUILDING UP THE NERVOUS SYSTEM.

Sold by all Chemists.
Wholesale: 8, Rue Vivienne. PARIS.

MORRHUOL CHAPOTEAUT

CAPSULES

MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.

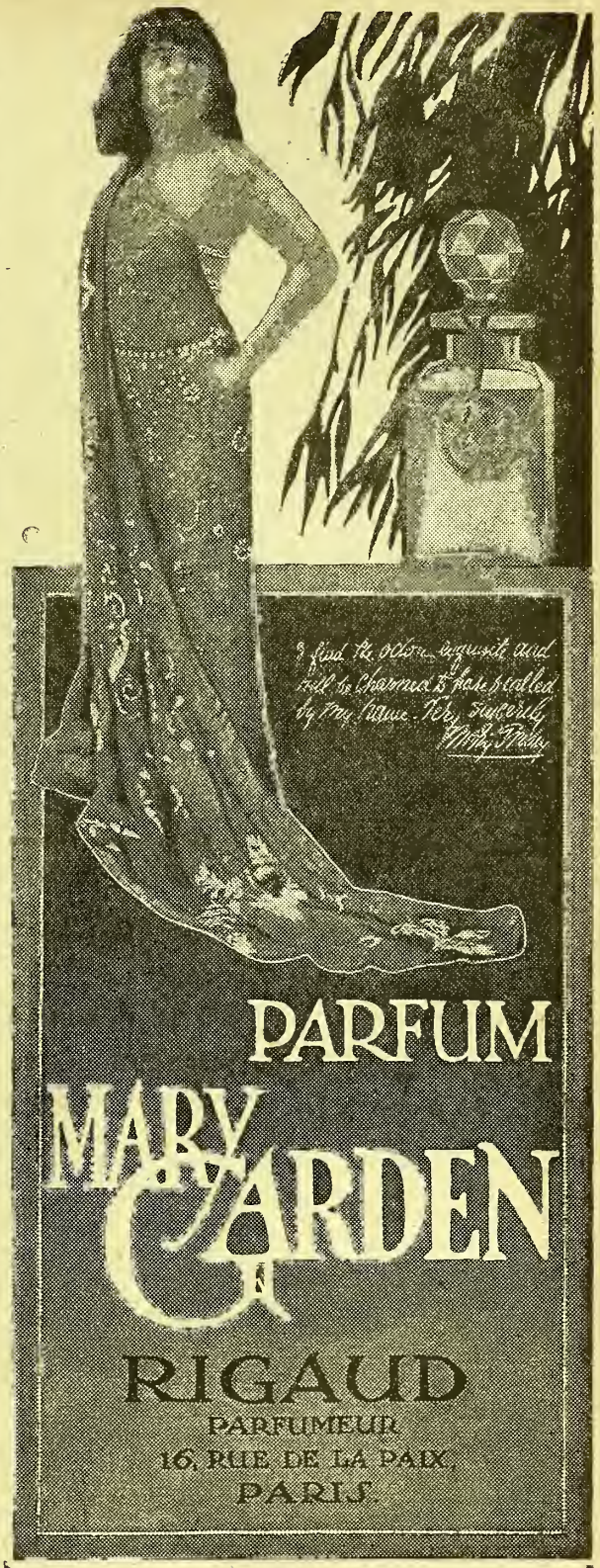
It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.

SOLD BY ALL DRUGGISTS.

CHANDRON'S DROPS
(Gouttes des Colonies)

A harmless antiseptic preventative against CHOLERA-FERMENTATION-INDIGESTION & other intestinal disturbances.

SOLD BY ALL CHEMISTS



LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.

GET IT NOW!

We make you an Offer on CASH WITH ORDER Terms.
All goods sent CARRIAGE PAID, FREE CASES.

This line is most strikingly got up in two-coloured Carton. Sells at sight. It is a genuine preparation, being a clear amber Liniment. Supersedes most other Liniments for efficiency and rapidity in action. Send your order NOW.

We offer You—

1 gross lot of 1/3 'Magnetum' Liniment at 9/- dozen, net cash with order, with 1 doz. extra, free of charge, plus 3 doz. 7½d. 'Magnetum' Corn Cure, free of charge.

	£	s.	d.
Selling 13 doz. 1/3 'Magnetum' Liniment at 1/3 each, 3 doz. 7½d. 'Magnetum' Corn Cure at 7½d. ,, realises	10	17	6
Your outlay is therefore	5	8	0
Shows a clear Profit of	£5	9	6

Address all communications and make all Cheques payable to the Sole Manufacturers and Exclusive Proprietors—

NI-VERRE Chemical Coy.
5, 6 & 7 ORMEAU AVENUE, BELFAST, Ireland.

Clear Profit of 100 %

Orisal Reg.

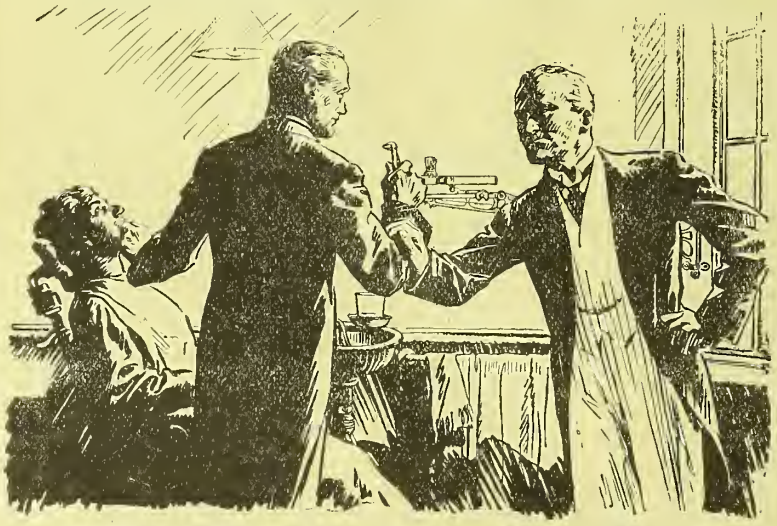
The agreeable alternative to extraction in the prevention & treatment of **PYORRHŒA**

THE FORMULA OF A SPECIALIST.

As a dental paste **2/3** per tube; wholesale, **23/-** per dozen net.

As a concentrated mouthwash **2/9** per bottle; wholesale, **28/-** per dozen net.

(Including Medicine Stamp duty)



Protected Prices.

Remittance with order, carriage paid on not less than one dozen.

Particulars of liberal progressive discount on application.

Value of goods returned refunded in full.

Of principal wholesale Houses, or direct from

ORISAL Ltd.,
77 GEORGE STREET, PORTMAN SQ., W. 1.

Style P. 160/1 without mirror per 6/6 dozen.

Style P. 160/2 with mirror in lid per 7/6 dozen.

POUDRE

IMPERIA

A solid, impalpable Face Powder, exquisitely perfumed in pocket case with puff, made in Rouge, Brunette & all shades

COMPACTE

Packed in beautifully labelled silent salesman — outers. — Private Brands made for the wholesale trade

The EMPIRE PERFUMERY CO. (Cuxson, Gerrard & Co. Ltd., Proprietors) OLDBURY.

COLONIAL AND EXPORT INQUIRIES SPECIALLY INVITED

Quin Quenna

BETTER THAN A SHAMPOO

BRINGS CUSTOM EVERY DAY

6D. PER PKT. | PER DOZ. 4/-

READ THIS!

Boxed in half-gross containers (as illustrated) with one dozen bonus, and sent Carriage Paid to any Chemist's address in the Kingdom.

Persistently advertised in every paper

Most women buy use and insist on having it.

This container and advertising material ought to be shown by all discerning chemists.

NOTE.—It nets with bonus the P.A.T.A. profit of

43%

MAY WE SEND?

CHRISTY'S, OLD SWAN LANE, LONDON, E.C. 4

PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.
Newcastle-on-Tyne and Cardiff.

METHYLATED SPIRIT

OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.
Write for Prices. ESTABLISHED 1794.

SAMUEL THORNLEY, Ltd., BIRMINGHAM

EUCALYPTUS OIL

(RECTIFIED).

Eucalyptol Coutent	70/80%
Optical Rotation	0 to 1
Specific Gravity	·919 to ·928

Absolutely Free from Phellandrene.
Quotations by cable. Wholesale Trade only.

BURNSIDE & COMPANY
Eucalyptus Oil Distillers,
VICTORIA, AUSTRALIA.
New Postal Address— 439 Flinders Lane, Melbourne.
Cables—"Burnside Company, Melbourne."

PURE ESSENTIAL

OIL OF HOP.

Singly and fractionally distilled.
HIGHEST CONCENTRATION AND PURITY GUARANTEED.
Prices, samples and information from the distillers:—
WHITE, TOMKINS & COURAGE, LTD.
HEAD OFFICE:
48 Mark Lane, LONDON, E.C. 3,
And at
LIVERPOOL, BELFAST, BOSTON, and TANDRAGEE.

TOOGOOD'S TOILET CREAMS

Creme Altesia

A non-greasy Face Cream. Packed in 1-oz. Screw-capped Jars, each in Carton. 7/- per doz.

Altesia Skin Food

A greasy Skin Cream. Packed in 1½-oz. Flat Screw-capped Jars. 7/- per doz.

Manufactured only by

William Toogood, Ltd., 77 Southwark Street, London, S.E.1.

7d. EVERY TIME

After you've made up a 1/- Mixture, with half-a-dozen impatient customers "kicking their heels," and others, seeing Pharmacy full, pass on to your neighbours'.

Just think—

how much better it would be to have reliable remedies ready at hand for general complaints, such as Influenza, Neuralgia, Coughs, Fever, etc.

OWN NAME REMEDIES TO RETAIL, 1/3; 8/- per doz.; 95/- per gross ASSORTED CARRIAGE PAID

OR PACKED TO YOUR OWN FORMULÆ WITH OWN LABELS : : : : : : : :

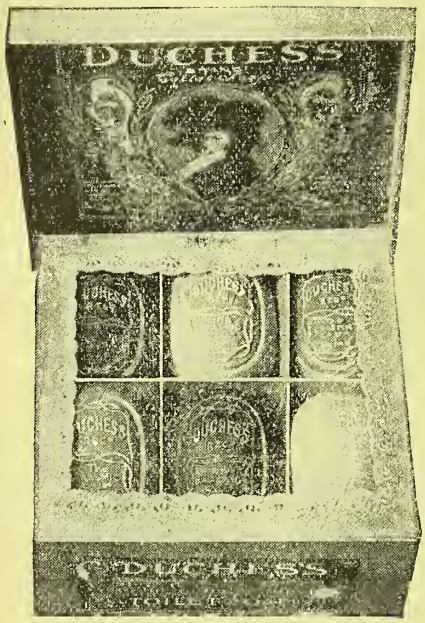
SHALL WE PACK YOURS?

QUICK SERVICE PAYS

CARMOL Ltd.
Manufacturing Chemists

Washington Street
BIRMINGHAM

Sale reserved exclusively to Chemists.



"DUCHESS" Regd.

TOILET SOAP

4D. TABLETS.

Price Protected.

No cutting.

Send for Price List to

"Erasmic" Perfumers, Warrington.

DODGE & OLCOTT CO., 20 MARK LANE, LONDON, E.C.

THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.
BALSAMS of Copaiba, Peru, Tolu.
TONKA BEANS, Angosturas.

'Phone: CITY 2468.

Telegrams: "EGDARF, FEN, LONDON."

FINEST OIL SOAP
(Tivollier de Gourjon, Marseilles).

PURE SAFFRON
(A. Jaurand, Orleans).

PURE RICE STARCH POWDER.
CONFECTIONERS' COLOURS.
ANILINE DYES for all purposes.

For particulars and samples, apply to
PRONK, DAVIS & RUSBY, LTD.
13 Haydon Street, LONDON, E. 1.

For Delicate Skins.

EUDERMINE CREAM
at 2/- per bottle.

EUDERMINE FACE POWDER
at 1/6 per box.

Obtainable at all Chemists and Stores.

Manufacturers: EUDERMINE CO., LTD.
79 Coleman Street, LONDON, E.C. 2

Lescol Perfumery

NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities — Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

THE LONDON ESSENCE CO., Ltd.

(Proprietors of THE LESCOL PERFUMERY CO.)

Lomond Grove, Camberwell, LONDON, S.E.5.

Telephone: 810 HOP. Telegrams: "VANILLIN, CAMBER, LONDON."

USE

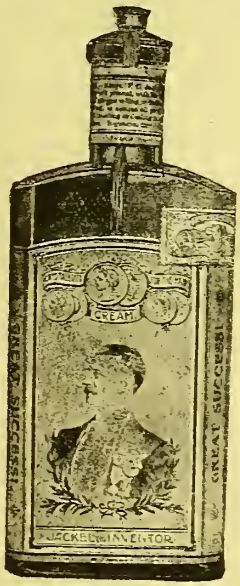
"Jackel's Cream"

(without Grease).

for THE HAIR

Sold everywhere throughout the World.

Established 1883.



"Jackel's Cream" claims to fix the hair in any desired position; is unexcelled as a dressing and does not soil the hat or bonnet. It removes Scurf and Dandruff, keeps the scalp healthy, and hence promotes the natural growth of the hair while maintaining its softness and brilliancy.

Prices for Wholesale and Export Houses on application.

CRYSTALLISED 1/6 CREAM 2/6

Trade Mark attached to each bottle.

Jackel et Cie (of Paris) Ltd.
Sauchiehall Street
GLASGOW

ZENOBIA Eau de Cologne and Zenobia Lavender Water are most useful as preventives of Influenza, and as purifiers and restoratives in the sick room, because of the essential oils used in their manufacture. These have most valuable antiseptic qualities.

ZENOBIA Eau de Cologne and Zenobia Lavender Water are the ideal perfumes—fragrant, lasting and refreshing.

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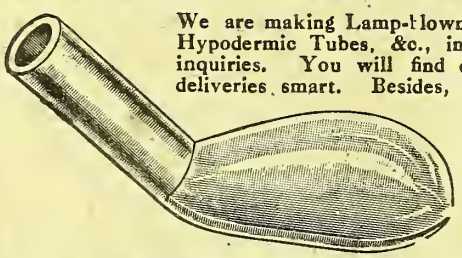

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CONTENTS: No. 11 (Series No. 2042), Vol. 91.

	PAGE		PAGE
Australasian News	50	Dentists Act Committee	57
Baghdad Military Hospital	66	English News	47
Belgian News	50	Information Department	60
Birth	59	Insurance Act Dispensing	64
Business Changes	51	Irish News	49
Chemical Society	51	Italian Prescription Tariff	51
Cocaine Cases	55	Legal Reports	55
Coming Events	47	Marriage	59
Correspondence—		Ministry of Health Bill	56
Letters	70	More Tales of Oenophus	55
Subscribers' Symposium	71	New Companies and Company News	54
Legal Queries	72	New Use for Olibanum	56
Miscellaneous Inquiries	72	Observations and Reflections	61
Deaths	59	Personalities	51
Determination of Lead in Lead Salts	52	Poisonings	48
Editorial Articles—		Relaxation of Export Prohibitions	66
Apothecaries' Assistants	62	Retrospect	72
Methylated-spirit Drinking	63	Scottish News	49
Canadian Chemicals	63	Trade marks	60
German Poison-gas Factories	63	Trade Notes	60
Retail Sale of Honey	64	Trade Report	67
Commercial Travellers' Commission	64	Westminster Wisdom	58
		Winter Session	65

Coming Events.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, March 18.

National Association of Women Pharmacists, London Group, Dr. Williams' Library, Gordon Square, W.C. 1, at 7.30 P.M. Mr. Hugo Wolff on "Proprietary Articles Trade Association."

Wednesday, March 19.

Industrial Reconstruction Council, Saddlers' Hall, 141 Cheapside, London, E.C. 2, at 4.30 P.M. Mr. H. A. L. Fisher, President of the Board of Education, on "The Functions of Government in Relation to Education."

Ealing Pharmacists' Association, Priory Club, Acton, at 7.15 P.M. Whist-drive. Tickets (2*s.* 6*d.* each) from Mr. Arnold Roberts, 171 High Street, Acton, London, W. 3.

Birmingham Pharmaceutical Association, Imperial Hotel, Temple Street, at 8.30 P.M. Major J. Hall-Edwards on "X-rays in the Service of Man."

Thursday, March 20.

Chemical Society, Burlington House, Piccadilly, London, W., at 8 P.M. Ordinary meeting.

North London Pharmacists' Association, Progressive Pharmacy Club, Arundel Hotel, Victoria Embankment, W.C., at 8.30 P.M. Address by Councillor Herbert Skinner.

ESSEX (COUNTY) ASSOCIATION OF PHARMACISTS.—A dinner will be held at the Holborn Restaurant, London, W.C., on March 27, at 5 P.M. Tickets (8*s.* 6*d.* each) from Mr. C. Goode, 6 Crisp Street, London, E. 14.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

War Regulations Altered.

Since the last list was published in THE CHEMIST AND DRUGGIST (February 22, p. 47) the following Regulations or Orders under the Defence of the Realm Act have been altered or suspended. The references are to *The Chemist and Druggist Diary*, 1919:

P. 69. *Ammonia and Ammonia Products.*—The Ammonia Control Order 1918 has been suspended and the manufacture and trade in ammonia and its products may now be carried on without restriction.

P. 70. *Calcium Carbide.*—The Calcium Carbide Order 1917 is suspended, the effect being that trade in calcium carbide is now free from restrictions.

P. 73. *Oils and Fats.*—The Edible Oils and Fats and Fat Compounds (Distribution) Order 1918 has been revoked. This dealt with the distribution to the wholesale and retail trades of the substances mentioned.

Liquor-trade Control.

Various amendments have been made in the Regulations of the Central Control Board (Liquor Traffic) dealing with the hours during which intoxicating liquors may be sold. A modification of the restrictions as to spirits withdraws the provision which prevents orders for spirits for "off" consumption from being given personally on licensed premises except during the mid-day hours. Spirits are thus put, as regards the time when orders can be given for them, on the same footing as other intoxicating liquor. It is pointed out by the Board that there appears to be in the public mind considerable misapprehension as to the Orders of the Board preventing spirits from being obtained for medicinal purposes. From the first there has been a provision in the Orders expressly exempting the purchase of spirits when certified to be required for medicinal purposes from the restrictions imposed by the Orders upon the quantities in which, and the hours at which, spirits may be sold. The week-day evening opening period for "off" sales is to be from 6 to 8.30 P.M. Beer, wine, or spirits may now be delivered by wine merchants or from licensed premises "in horse-drawn or motor vans, lorries, or similar vehicles" up to 8.30 P.M.

Guardians' Affairs.

The Halifax Guardians have renewed the drug contract of Corbyn, Stacey & Co., Ltd.

The Uckfield Guardians, in refusing an increase of salary to the Workhouse Medical Officer, decided to cancel the contract for the supply of drugs by him, and in future to purchase drugs by tender.

The St. Pancras North Infirmary Committee have acceded to the application of Mr. John F. Turner, dispenser, to be remunerated on the new scale of salaries for the Metropolitan area sanctioned by the Local Government Board.

Birmingham.

Science students are getting alarmed at the high prices of text-books and the impossibility of procuring second-hand copies.

A trader in Corporation Street has put in his window the legend: "No stock here. These are dummies. Do not break the glass"!

Cadbury Bros., Ltd., have given the land for the erection of a school at Bournville, and will in addition bear two-thirds of the cost (estimated at 10,000*l.*).

Mr. J. W. Wilson, M.P. (Allbright & Wilson, Edgbaston), has resigned his membership of the Oldbury District Council after thirty-four years' continuous service.

"It should not be forgotten," writes a correspondent, "that if we advise a patient who is suffering from any venereal disease to take a dose of salts we render ourselves liable to penalties under the Venereal Disease Act."

In a paper read before the Midland Institute Scientific Society a few evenings since, Mr. C. M. Walter suggested the establishment of centrally situated testing-laboratories which might form a link between scientific institutions and manufacturers.

It would interest Mr. Wilfred Southall's fellow-pharmacists to know how much money that gentleman has been the means of raising for philanthropic objects. He is again billed at the Town Hall for a lecture—and it is suggested that Bingley Hall should be selected on the next occasion!

Liverpool.

Hanover Street continues busy, the improvements in the deliveries of supplies and the return of the demobilised men being followed by a rush of orders.

Mr. E. A. Stewart, chemist and druggist, ex-manager to the executors of John L. Moxon, Park Road, has acquired the business formerly carried on by Mr. George Underwood, 164 Aigburth Road.

Mr. Henry Peet, who has already given a lead to his magisterial colleagues on the question of methylated-spirit drinking (*C. & D.*, March 1, p. 48), has cut down his own orders from five gallons a week to ten gallons a quarter.

A correspondent of the "Liverpool Echo" suggests that the reason of the comparative immunity of Jewish people from influenza is their extensive use of olive oil. He is probably not aware that of late other oils have perforce largely replaced olive oil in cooking.

The Liverpool district has just lost two more of its leading medical men—Lieutenant-Colonel William Alexander, M.D., and Dr. R. Sydney Marsden. The latter wrote in 1881 a book entitled "The Artificial Preparation of the Diamond," and has claimed to be the first investigator to succeed in making diamonds.

Arrested in Liverpool on a charge of failing to register, a young man named Cecil Archibald de Lenoir was found in possession of morphine pills sufficient, according to the report of the prison doctors, to kill seventy-two people. When charged before the stipendiary magistrate on March 6 he said that he intended to go to America to get cured of his habit.

Nottingham.

The influenza epidemic, which is at its height in Nottingham, has almost swept the shelves in chemists' shops.

It was reported at a meeting of Nottinghamshire bee-keepers on March 1 that the Bee-stocking Committee have had all their stocks destroyed by the Isle of Wight disease.

Infants' foods are now obtainable with less difficulty—much to the relief of doctors and others, who are in despair over the bad condition of the local milk-supply. The Medical Officer of Health has warned all local milk dealers and producers that, unless an improvement takes place, the Health Committee will apply for special powers to deal with them.

Mr. M. Chambers, chemist and druggist, referred to the same subject in a lecture that he delivered on March 10. In the course of his remarks he declared that a large proportion of the milk sold in Nottingham was not fit for consumption. Mr. Chambers did not advocate municipal farms, but thought that the Corporation should act as distributors, and be armed with large powers of inspection. He asked whether such high prices were necessary, when in Copenhagen better milk was being sold at less than half our rate.

Sheffield.

An association of junior workers in pharmacy is in process of formation.

Mr. George Squire, Ph.C., has been elected a director of the Sheffield Athenæum Club for the coming year.

Glycerin is well in the public view just now, various classes of traders—including greengrocers—having seen fit to make a display.

It is understood that the local Council is taking steps to establish educational facilities at the University for pharmacists' apprentices.

The Insurance Committee is requesting that a more adequate service for the supply of oxygen in various parts of the city be provided.

Sheffield is in the grip of influenza and measles. Influenza and pneumonia accounted last week for 159 deaths, and there were 895 new cases of measles.

Miscellaneous.

The British Association is to meet this year at Bournemouth, on September 9, under the presidency of Sir Charles Parsons.

Aerated-waters Trade.—The Wages Regulation Order, of which notice was given in the *C. & D.*, February 1, p. 41, has now been issued by the Minister of Labour.

Early-closing Canvass.—The King's Lynn Traders' Association is carrying out a canvass to secure approval for a proposal to close at 6 P.M. on four evenings a week and at 7 P.M. on Saturdays.

Theft During Mid-day Interval.—While the Uxbridge shop of Timothy White Co., Ltd., was closed for the mid-day interval, on March 6, the premises were entered and 7*l.* was stolen from the till.

Exports to China.—The Vunus Pharmacy, Shanghai, is added by the Foreign Office to the list of persons to whom articles to be exported to China may be consigned. The Tek Hua Dispensary, Hankow, is removed from the list.

Belgian Doctors' and Pharmacists' Relief Fund.—Since this fund was closed (*C. & D.*, February 15, p. 42) some further contributions have been received, including one of 6*l.* 5*s.* from the Hampshire Pharmacists' Association, and one of 5*s.* from Mr. H. E. Morris.

Spectacle-makers' Company.—The next Optical examinations of the Company will be held at St. Bride Institute, Ludgate Circus, London, E.C., during the week commencing May 19. Applications from candidates should be addressed to the Acting Clerk, 11 Temple House, Temple Avenue, E.C. 4.

Sulphur Dioxide for Rats.—Under the direction of the Board of Agriculture and Fisheries, experiments were lately carried out, near Reading, in exterminating rats by forcing sulphur dioxide into their runs. Two Clayton fumigating machines were installed for the purpose, 100 lb. of sulphur being used. Over 100 rats that escaped from their runs died subsequently from the effects of the fumes.

Wine-licence Applications.—Mr. E. A. Bailey, chemist and druggist, Boston, applied recently for a wine off-licence. The licence was granted on an undertaking that he would only sell the wines in a schedule previously agreed to by Grimble & Kent, chemists.—At Merthyr Tydfil, recently, the application of Mr. John Roberts, chemist and druggist, High Street, Penydarren, for a similar licence was granted by a majority. Opposition was voiced by the Chief Constable, who urged that it was better for the public to go to a licensed house for articles of this class.—At Widnes, on March 6, Mr. E. H. Hague, chemist and druggist, Albert Road, was granted a licence to sell medicated wines.—At Leyburn, the application of Mr. H. C. Brierley, chemist and druggist, for a wine off-licence was refused.

Sale of Food and Drugs Acts.—At Coalville, on March 7, Samuel Holmes, shopkeeper, was ordered to pay 1*l.* 8*s.* 6*d.* costs on a charge of selling Epsom salts containing an excess of 45 parts of arsenic per million. It was stated that Holmes sold about 7 lb. of Epsom salts in a year.—At the North London Police Court, on March 10, an adjourned summons was heard relating to an alleged fat-deficiency in milk. For the Hackney Borough Council, the prosecutors, it was stated that their analyst found that the cream in the milk only amounted to 2.5 per cent. For the defence, it was explained that another public analyst had examined the portion of the sample left with the defendant, and found that the milk contained 3.78 per cent. of cream, the Government standard being 3 per cent. It was agreed that the third sample should be submitted to the Government analyst at Somerset House, who now reported that the sample contained 3.77 per cent. of fat. The Magistrate said a very serious mistake had been made, but it was no part of his duty to say whether it was due to the public analyst or the officer who took the sample. He dismissed the summons, with 5*l.* 5*s.* costs against the Hackney Borough Council.

In the Courts.—At the North London Police Court, on March 6, H. W. Brooker, a deck hand in the Navy, was remanded on a charge of being concerned in breaking into the warehouse of the British Ever Ready Co., Ltd., Hercules Place, Holloway, N., and stealing a motor-car, value 142*l.*—At Hanley, on March 10, Dan Lewis & Co., Ltd., wholesale grocers, were fined 50*l.* on each of six summonses for contravening the Cocoa Prices Order No. 2, and were ordered to pay the cost of other summonses—a total amount of 328*l.* It was stated that the defendants sold cocoa to retailers at 2*s.* 10*d.* per lb. instead of 2*s.* 8*d.* For the defence it was urged that only a technical offence had been committed.—At the Old Bailey, London, on March 7, Roscoe Charles Spurrin was sentenced to six weeks' imprisonment in the second division for forging cheques and converting to his own use the sum of 805*l.* entrusted to him by Sir Jesse Boot, Bart. (*C. & D.*, February 1, p. 43).—At the Old Bailey, London, on March 12, Percy P. Shephard, R.A.M.C., charged, *inter alia*, with attempting to cause the administration of noxious drugs (*C. & D.*, March 1, p. 49), was sentenced to five years' penal servitude.—At Lambeth Police Court, London, on March 11, Charles William Baker, described as a druggist's assistant, charged on remand with being in the unlawful possession of cloth (*C. & D.*, March 8, p. 49), was sentenced to six weeks' imprisonment.—At Stratford Police Court, Essex, on March 11, Frederick Johnson (17), carman, was sent to prison for a month and James Hanmore (15), van-boy, was bound over, on a charge of stealing and receiving rings (valued at 70*l.*) belonging to the wife of an Ilford doctor at whose house they were delivering drugs and dispensing-bottles.

Poisonings.—The inquest on the body of Edith Elizabeth Plumb (44), assistant at the pharmacy of Joseph James, 18 Wilton Road, London, S.W., was concluded on March 11 by the Coroner for Central London, after having been

adjourned for an analysis to be made (*C. & D.*, February 15, p. 43). It had been stated in evidence at the former hearing that Dr. E. T. MacCarthy, Gower Street, W.C., and another medical man had pronounced the case to be one of morphine-poisoning. Mr. John Webster, assistant-analyst to the Home Office, now attended, and said that on analysis he had found in the organs 1-10th gr. of veronal. Dr. Spilsbury, recalled, said that death was due to coma from veronal-poisoning, and he thought that a dose of 50 gr. or more had been taken. Pneumonia was present, and it might have been set up by the veronal. Frederick George Cooke, manager of the pharmacy at 18 Wilton Road, said that an examination had been made of the stock of veronal there, but none had been missed. The Coroner recorded a verdict of "Death from veronal-poisoning," adding that there was not sufficient evidence to show with what object the veronal was taken.—At an inquest held in the same Court, on March 8, Miss Scarborough, house surgeon at the Elizabeth Garrett Anderson Hospital, Euston Road, stated that she was the anæsthetist in a nasal operation on the deceased, and administered 4 dr. of chloroform. She noticed after the operation was commenced that the girl was only slightly under the influence of the anæsthetic, so she decided to give more. In so doing she must have pressed too heavily on the apparatus, causing an escape of liquid chloroform. That, no doubt, caused instant death. She tested the apparatus before and after the operation, and failed to find any defects. Dr. Spilsbury said that death was due to the liquid chloroform entering the air-passages and lungs. Death was instantaneous. A verdict of "Death by misadventure" was returned.—In the case of Mr. Henry George Barrett, a London solicitor who poisoned himself with corrosive sublimate, a "Temporary insanity" verdict was given.

Scottish News.

Brevities.

Wholesale orders are slow in delivery, owing to the depletion of staffs from "flu."

It is reported of a worthy Scottish chemist that he kept his customers subdued during the late "flu" rush by announcing an impending chemists' strike!

Burntisland promises to be a thriving place in the near future, if it has not already attained that position. The big aluminium works, to mention only one industry, is bound to attract additional business.

Mr. Richard Gunnell, 30 Grove Street, Glasgow, has taken over the Scottish ground of the Chemists' Manufacturing Co., Ltd., Rockingham Street, London, S.E., for which company he is the sole representative in Scotland.

Mr. J. C. McCorquodale, J.P., chemist and druggist, Markinch, has resigned the post of Hon. Secretary and Treasurer of the Markinch Burns Club, of which he was a founder. Mr. McCorquodale is leaving the district for reasons of health.

Edinburgh.

The Rev. George Jack, proprietor of "Helios," has returned to France to carry on Y.M.C.A. work in the Army there for the third time.

One of the demobilised makes the suggestion that schools of pharmacy all over the country, if they cannot accommodate any more students in the daytime, might endeavour to secure a teaching staff for during-the-night classes.

A benign old clergyman wandered into a local pharmacy the other forenoon, brought forth an empty bottle, and mildly demanded some phenol for the influenza. After listening to a few soothing remarks, he smilingly departed with something else.

Sunday, in some districts, is rapidly becoming the favourite period for renovation of garments, rejuvenation of person, and general trifling with novelties. Mary now enlivens a dull Sunday by sending out for benzine or turpentine: Jean reads in her favourite periodical that Miss Footlights owes much of her beauty to the strenuous use of hydrogen peroxide; and Tom clips out the latest formula for a photographic developer, and stalks off to the nearest chemist.

Proposed Control of Narcotic Drugs.—Among proposals made by a medical official in New York for the reduction of the drug evil in that city are: (1) The registration, photographing, and finger-printing of every drug victim in the city; (2) the complete abolition of the sale of habit-forming narcotics by private drug-stores, substituting instead an official medical agency as the sole dispenser of drugs in the city; (3) the grading and gradual reduction of doses of drugs until the victim is cured.

Irish News.

Brevities.

Mr. R. F. McCartney, Ph.C., Coleraine, recently presided at a local meeting which decided to erect a monument to townsmen who had fallen in the war.

Dr. J. W. Dickson, L.P.S.I., Pettigo (late Medical Hall, Darling Street, Enniskillen), has given 100*l.* to the Maguiresbridge Presbyterian Church as a thankoffering for the preservation of his three sons during the war.

At the monthly meeting of the Newtownards Urban Council, Mr. Thomas Sandford, R.D., Chairman of the Committee of the Chemists' and Druggists' Society of Ireland, was co-opted a member of the Council.

Keeping Away Influenza.

Mr. John Grimes, R.D., Pomeroy, has circulated a handbill in his district giving advice as to the best way of avoiding an attack of influenza. His five points are:

1. Keep the feet dry and warm.
2. Wear warm clothing next the skin.
3. Eat heat-forming foods, such as Irish bacon, butter, and potatoes. Drink good tea, with plenty of cream in it.
4. Keep houses, out-houses, yards, etc., thoroughly disinfected with a good disinfecting fluid.
5. In case of a mild attack use aspirin tablets and Seidlitz powders. If severe, call in medical assistance.

Belfast.

Mr. Samuel Smyth, R.D., 84 Castlereagh Road, Belfast, has acquired No. 82 as additional premises.

Negotiations between the Belfast chemists and druggists and their assistants regarding wages and hours of service are now in progress.

Mr. W. R. Stinson, Ph.C., has taken over the surgery lately occupied by Dr. N. McConnell, where he will carry on, after renovation, the business of a high-class pharmacy.

Pharmacists and druggists in Belfast and district are again very busy in consequence of another influenza epidemic. Fortunately it lacks the virulence of the previous visitation.

On vacating the Presidential chair of the Ulster Reform Club recently, Mr. T. W. McMullan (Thos. McMullan & Co., wholesale druggists, Belfast) was accorded a hearty vote of thanks for his services.

Cork.

The shortage of American proprietary articles still continues, but an improvement is promised during the next few weeks.

No fewer than seventeen members of the staff of Baker & Wright, Patrick Street, were stricken with influenza on the same day.

Boards of Guardians in the South of Ireland are inviting tenders for the supply, next year, of medicines and surgical appliances.

Are English wholesalers obliged to affix patent-medicine stamps on articles coming to Ireland? Patent-medicine duty does not apply to Ireland, nevertheless goods arrive from some firms stamped. It is an interesting point which should be cleared up.

The funeral, on March 10, of Dr. Jack Higgins, house surgeon at the Cork North Infirmary, was attended by many local chemists, including Messrs P. J. Fielding, M. Fielding, S. Whelan, E. MacSwiney, J. French, — Magner, — O'Sullivan, and J. A. Burke.

The public seem to appreciate the reappearance of "health salts." This commodity has been greatly missed during the war, and, although there is a fair supply locally, the difficulty is to get tins. Chemists are offering as much as 3*d.* each for the empty containers.

According to the "Liverpool Post," a popular member of Parliament says: "I have to struggle to the House through invitations to sumptuous meals, which reduce me to hurried visits to chemists." It is nice to think that our legislators know where to go for advice.

Occult Prophylaxis.—The London Manx Society recently passed the following resolution: "That in the opinion of this Society the moonjer-veggey, phynnodderee, lhiannan-shee, dooinnee-oie, chabbyl-ushtey, keyllagh, and other such folk always have existed, and will exist, all arguments and so-called proofs to the contrary notwithstanding, and that it is imperative that, having regard to the present plague of influenza, the members of this Society in particular, and Manxmen in general, should forthwith take all precautions adopted by our ancestors to defeat such, and thus avert the further mischief that will otherwise undoubtedly ensue."

Australasian News.

"The Chemist and Druggist" is supplied weekly to all the members of eight Chemists' Societies in Australia and New Zealand.

New South Wales.

Barium Sulphite for Sulphate.—At the City Coroner's Court, Sydney, recently, an inquest was held concerning the death of Joseph Slater. The post-mortem examination suggested that death was due to poisoning by barium sulphite. It appears that Slater, who was to undergo *x*-ray examination at the Sydney Hospital, was given a box containing a barium compound, and directions, from Dr. Ayres. The day after Slater's death the powder was found, by analysis, to consist chiefly of barium sulphite. The Government analyst (Dr. Cooksey) further reported that he had examined a specimen of barium sulphate obtained from the Sydney Hospital, and found it contained 76 per cent. of barium sulphite. The chief dispenser (Mr. Wearne) stated that a tin of the salt in question was obtained from the Australian Drug Co. He did not apply any tests. The hospital obtained its barium sulphate from Burroughs Wellcome & Co., with the exception of 5 lb. obtained from the Australian Drug Co. An assistant dispenser said he took the barium sulphate from the tin because there was none of Burroughs Wellcome & Co.'s packets in stock. The inquest was adjourned.

Venereal Diseases Bill.—The Venereal Diseases Bill came on for second reading on December 4. It provides for notification, registration, and compulsory treatment on the lines familiar in Bills in the other States. The Government inserted a novel clause: "A registered pharmaceutical chemist may attend upon, or prescribe for, persons suffering from such venereal diseases, other than syphilis, as may be prescribed by regulation, provided that he does so in the manner, and according to the regulations, prescribed." The Premier (Mr. Holman), replying to an amendment that the words of the provision be struck out, asked that the amendment be not pressed. After the Bill had been in operation a few months it would probably have to be amended, and then the clause might be struck out. It was not as if the Bill enacted that chemists might treat gonorrhœa. It only said that a highly qualified doctor might, if he thought fit, allow a chemist to treat certain cases. Strong opposition was raised by Dr. Arthur, who indicated the seriousness, in character and complications, of gonorrhœa. The amendment was therefore agreed to, and the provision of the Bill allowing a pharmaceutical chemist to treat, under prescribed conditions, cases of venereal diseases other than syphilis was struck out. The Bill passed the third reading on December 9.—The Executive Committee of the New South Wales Association of Master Pharmacists, at a special meeting, discussed the Bill. It was decided to forward a conjoint letter to the Minister of Health and to write to the Sydney "Morning Herald," and to Dr. Arthur, M.L.A., to express gratification that the present Bill precludes them from any obligation to prescribe, and to emphasise the need of a clause to limit dispensing to pharmacists legally registered under the Pharmacy Act.

Victoria.

The Pharmaceutical Society of Australasia.—At the December meeting of the Council of the Society, Mr. Pickford expressed, on behalf of the members, their sympathy with the President (Major Cossar) in the unfortunate position in which he had been placed in connection with the recent fatality (*see below*). The President thanked the Council for its sympathy, and spoke of the help rendered to him by pharmaceutical friends.

Poisoning Case.—At the Criminal Court, Melbourne, recently, A. E. Allwright, assistant with Major D. A. Cossar (staff officer for Pharmaceutical Service, Melbourne, and President of the Pharmaceutical Society of Australasia), was charged with the manslaughter of George Simpson. The evidence showed that Dr. Boyd, who was attending deceased, prescribed a mixture containing 20 grains bromide with liquorice and four cachets, each containing eight grains barbitone and five grains acetylsalicylic acid. Some seventy-two hours after taking a cachet the patient died. On analysis a cachet was found to contain 12.68 grains of powder showing a morphine content equivalent to 6.97 grains of acetomorphine hydrochloride; the rest was acetylsalicylic acid. Miss Angwin (qualified assistant with Major Cossar) is alleged to have admitted that she made up the mixture, and Thomas Payne, the apprentice, compounded the cachets. She now stated that while she entered the prescription in the book, Allwright compounded the medicine. The facts of the case did not occur to her until she had looked at the prescription-book. In his evidence for the defence the accused said that he did not compound the medicine, and recalled Miss Angwin's first statement. Thomas Payne, apprenticed to Major Cossar, stated that he was attending lectures at the College of Pharmacy when the medicine was made up. In the address for the defence counsel pointed out that the accused consistently denied having compounded the prescription. The jury returned a verdict of "Not guilty," adding a rider that "the Pharmacy Act should be amended to require every prescription to be signed and dated by the person who makes it up, so that direct responsibility shall be placed upon the dispenser."

Belgian News.

(From our Belgian Correspondent.)

Cod-liver Oil.—In commenting on "Xrayser II.'s" remarks in the *C. & D.* of February 1, concerning the history of the introduction of cod-liver oil into therapeutics, the "Journal de Pharmacie de Belgique" suggests that Belgian fishermen might profitably undertake the production of cod-liver oil, and believes that some attempts in this direction were made some years before the war.

Drug Distribution.—Chemically-pure glycerin is now to be distributed to Belgian pharmacies in the ratio of 5 kilos. of glycerin for every 5 litres of alcohol which the pharmacy in question has hitherto been entitled to receive. The price is fixed at the rate of 15*s.* 5*d.* per kilo. Doctors holding a supply of medicines will be entitled to purchase from a pharmacist 1 kilo. of glycerin at 16*s.* The price to the public has been fixed at 1*s.* 11½*d.* for 100 grams. The new tax on alcohol has raised the price of alcohol for pharmaceutical purposes from 5*s.* 10*d.* to 8*s.* 4*d.* a litre. Alcohol for industrial uses costs 1*s.* 3*d.* a litre.

A Pharmacist of Ypres.

M. Weckesser, a pharmacist of Ypres, and a former President of the Pharmaceutical Syndicate of that district, describes his experiences in a letter to the "Journal de Pharmacie de Belgique." In November 1914, during the first bombardment of Ypres, when the cathedral, the Halles, and many houses were destroyed, only a thousand inhabitants of a population of 17,000 remained; all the pharmacists and doctors left, with the exception of Dr. Van Robaeys, who remained in the town to the end. M. Weckesser and his wife took up their abode in Poperinghe, seven miles west of Ypres, but as the bombardment became less violent, those inhabitants who had sought refuge in the neighbouring villages gradually returned, living as best they could in half-destroyed houses. The hygienic conditions were terrible; typhoid broke out, and large posters called upon the inhabitants to submit themselves to anti-typhoid vaccination, performed by British and French military doctors. Dr. Van Robaeys at this juncture requested M. Weckesser to return to Ypres; he did so, and reopened his pharmacy at the beginning of the year 1915. The two front rooms of his house had been demolished, there was a large hole in the roof, but the ground floor was undamaged. Now began the most awful life imaginable. He kept his pharmacy open from 9 A.M. till noon, and from 1 to 5 P.M. After a hasty meal the family retired to the cellar until the next morning. The German trenches were only two and a half miles from the town, and daily the shells made their toll of victims. Whole rows of streets were destroyed. At night the firing of each shell and, after a few seconds' silence, the deadly explosion, were distinctly audible. There was no coal, no water, no light. Nevertheless, in March, Ypres numbered 6,000 inhabitants, all gaining a livelihood by some form of trading, thanks to the large numbers of British and French troops in this region. Thus life continued until April 20, 1915, when twelve shells of 305 mm. fell on the town, causing terrible damage and numerous deaths. The next day the streets were deserted; but two days after the inhabitants had a most awful experience. That afternoon the Germans attacked Ypres, using poisonous gas for the first time; coincidently a hail of shells fell upon the town and all roads leading to it. Soon all that remained of Ypres was in flames and in ruins; the military authorities then ordered the evacuation of the town. The following day M. Weckesser with his wife left for France, where he settled as manager of a pharmacy in Fécamp. He is now awaiting an opportunity to return to Belgium to take up a position as assistant, or purchase another pharmacy, but not in Ypres, now destroyed for all time.

New Italian Prescription Tariff.

"The difficulty in obtaining raw materials and the shortage of labour have greatly decreased the production of medicaments, thereby causing a considerable advance in cost of manufacture and in the price to the public. These effects have been further aggravated by the excessive demands made by speculators who, profiting by the abnormal market conditions ruling to-day, have increased the prices of medicines beyond the limits justified by the present exceptional conditions." These are the words of a decree, issued to Prefects of the Italian provinces, empowering them to establish maximum prices for drugs in daily use, thus extending to all medicaments the provisions hitherto applicable only to medicines for charitable and public institutions. To avoid too great a divergence in the prices fixed by each province, the Government Tariff Commission has compiled a list, with average prices, which is to be taken as the present maximum. At the same time the Government permits pharmacists to double the charges established for compounding prescriptions. The penalty for exceeding the amount fixed by these official prescription tariffs is extremely severe (a fine of 20*l.* to 40*l.*). In addition, the Prefect may order the pharmacy to be closed for three months. For a second offence the fine is supplemented by imprisonment from one to twelve months, and the Prefect is empowered to forbid the owner to practise pharmacy. There is no appeal, either by legal or administrative means, against a decision pronounced by a Prefect.

Appended are a few of the prices quoted by the model tariff, representing average prices throughout Italy, some of which are excessively high:

—	Kilogram.	Gram. 100	Gram. 10	Gram. 1	Gram. 0.1
Acid. acetylsalicyl.	—	—	2*s.*	3*d.*	—
,, boric. ...	6*s.* 8*d.*	10*d.*	1½*d.*	—	—
,, carbolic. ...	24*s.*	4*s.*	8*d.*	1½*d.*	—
,, tannic. ...	—	8*s.*	1*s.* 3*d.*	2½*d.*	—
,, tartaric. ...	—	2*s.*	3*d.*	1*d.*	—
Alcohol, 95 per cent.	12*s.*	2*s.*	4*d.*	—	—
Alumen	—	6*s.* 8*d.*	10*d.*	1½*d.*	—
Antipyrin.	—	—	5*s.* 10*d.*	8*d.*	2*d.*
Atropin. sulph. ...	—	—	—	—	2*s.*
Aqua destillata ...	8*d.*	1*d.*	—	—	—
Bals. peruv. ...	—	16*s.*	2*s.* 6*d.*	4*d.*	—
Bismuth. subnit. ...	—	12*s.* 6*d.*	1*s.* 8*d.*	3*d.*	—
Caffeina	—	—	5*s.*	8*d.*	2½*d.*
Camphora	—	8*s.*	1*s.*	1½*d.*	—
Chloroform ...	—	5*s.* 10*d.*	10*d.*	2*d.*	—
Cocain. hydroch. ...	—	—	—	8*s.*	1*s.* 3*d.*
Codein. hydroch. ...	—	—	—	5*s.*	10*d.*
Ext. hydrast. canad.	—	—	3*s.* 4*d.*	5*d.*	—
,, opii	—	—	6*s.* 8*d.*	10*d.*	2*d.*
Glycerin.	13*s.* 4*d.*	1*s.* 8*d.*	3*d.*	—	—
Gossypium	13*s.* 4*d.*	1*s.* 6*d.*	2*d.*	—	—
Heroin. hydroch. ...	—	—	—	5*s.*	10*d.*
Hydrarg. perchlor.	33*s.* 4*d.*	4*s.*	8*d.*	3*d.*	1½*d.*
Liq. adrenalin. hyd. (1-1000)	—	—	4*s.* 2*d.*	6*d.*	1*d.*
Magnes. sulph. ...	2*s.* 11*d.*	6*d.*	1*d.*	—	—
Morphin. hydroch.	—	—	—	3*s.* 4*d.*	8*d.*
Ol. morrhuæ ...	15*s.*	1*s.* 8*d.*	2½*d.*	—	—
,, ricini	24*s.*	2*s.* 11*d.*	4*d.*	—	—
Pepsinum	—	—	3*s.* 4*d.*	6*d.*	—
Potass. iodid. ...	—	16*s.*	2*s.*	3*d.*	1*d.*
Quinin. hydroch. ...	—	—	18*s.* 4*d.*	2*s.*	4*d.*
Sod. bicarb. ...	8*s.*	1*s.* 3*d.*	2*d.*	1*d.*	—
Tinct. nucis vomicæ	—	—	8*d.*	2*d.*	—
Urotropin.	—	12*s.* 6*d.*	1*s.* 8*d.*	3*d.*	—
Vaselin.	24*s.*	2*s.* 11*d.*	4*d.*	—	—

Business Changes.

Mrs. Dottridge, chemist and druggist, has acquired the business of the late Mr. W. R. Howard, 4 Napier Road, Kensington, London, W. 14.

Cooper & Co., chemists and aërated-water manufacturers, Bentinck Street, Calcutta, have been appointed aërated-water manufacturers to his Excellency Lord Chelmsford, Viceroy and Governor-General of India.

Mr. E. T. Neathercoat, Ph.C., Weybridge and Addlestone, has purchased the business of Mr. E. C. Spurge, chemist and druggist, Oatlands Park, who is retiring after a successful career extending over thirty years.

Chemical Society.

At the meeting held at Burlington House, Piccadilly, London, W., on March 6, Sir William Pope in the chair, Professor J. W. Nicholson delivered a lecture on *Emission Spectra and Atomic Structure.* In his introductory remarks he said that physicists had now reached the point in their investigations to establish the structure of the atom when they required the aid of the chemist to pursue this line of research. A masterly exposition of the various kinds of spectra then followed, dealing particularly with those emitted by hydrogen and helium, and he mentioned that the spectra became increasingly complicated with those elements whose places were towards the "heavy" end of the periodic system. He stated that it is not proved that the spectrum we see is actually that of the compound investigated; thus the ammonium spectrum is the spectrum of what we believe to be ammonium, but the same spectrum has also been observed in the sun, although we know that under the conditions prevailing there ammonium as such cannot exist. He also referred to the question whether the spectrum observed is that of an atom or of a molecule of the element, and alluded to the difference between an atomic and a molecular spectrum. His extremely interesting exposition of so difficult a subject was enhanced by references to the results of his own investigations. Accepting the Rutherford model as representing the structure of an atom, as a nucleus, with electrons rotating round it, like a solar system, the number of electrons being equal to its place in the periodic system, he discussed the various theories advanced to explain the influence and relation of the form of the atom on the spectrum produced. The changes caused by a mixture of two gases on the individual spectra, and also the differences between the spectra of hydrogen and helium observed in the laboratory from those emitted by these gases in the solar nebulæ and coronæ were points to be considered; in the latter case these differences might be due to the diminished pressure, and other conditions, such as the length of the column of gases, which could not be reproduced in the laboratory. A vote of thanks was moved by Professor Bragg, and seconded by Sir James Dobbie.

Personalities.

Mr. J. Shearman, chemist, Haverhill, has purchased premises in High Street at auction for 1,900*l.*

Mr. A. Mortimer, chemist and druggist, Harrogate, has been returned unopposed as Councillor for the West Ward.

Major John Bowlt Purvis, Ph.C., has been released from the Army and has resumed the personal management of his business at Bridlington.

Captain (Acting-Major) Victor O. Robinson, Sherwood Foresters, has been awarded a second bar to the Military Cross. Captain Robinson is a director of Robinson & Sons, Ltd., Chesterfield.

Captain W. H. Bowling, Welsh Regiment, attached R.E., chemist and druggist, has returned to civil life, and has resumed the personal management of his business at 44 Dimond Street, Pembroke Dock.

Mr. G. W. Hales, chemist and druggist, who has left Watton, Norfolk, for Ipswich (*C. & D.*, March 1, p. 57), had for some years been actively associated at Watton with a Prisoners of War Fund and other philanthropic activities.

Mr. William E. Gould, chemist and druggist, Teddington, the sale of whose pharmacy was announced in the *C. & D.* last week (p. 58), had been in business for thirty years. Mr. Gould was very popular in his district, and will carry with him into retirement many good wishes.

Mr. John C. Hewlett, F.C.S., chairman of C. J. Hewlett & Son, Ltd., wholesale druggists, Charlotte Street, E.C. 2, has been re-elected unopposed for the Bromley No. 1 Division of the Kent County Council, of which he has been a member for nine years.

It was agreed at the meeting of the Council of the Pharmaceutical Society that with the next quarterly payment to each of the annuitants on the Benevolent Fund a bonus of 10*l.* be added, as an allowance towards the extra cost of clothing, fuel, and food. Mr. F. E. Bilson, Chairman of the Benevolent Fund Committee, who brought the matter forward, said there is a balance of 1,000*l.* to the credit of the Fund, and that the bonus payment would amount to 510*l.*

Determination of Lead in Lead-salts.

By R. L. Morris, F.I.C.

The method given in the British Pharmacopœia, 1914, for the assay of lead acetate is as follows: 0.5 gram of the salt is dissolved in water acidulated with acetic acid, and the solution precipitated by excess of $N/1$ oxalic acid; the precipitate is washed and transferred to a flask, decomposed with excess of dilute sulphuric acid, the mixture heated to 60° C. and titrated with $N/10$ permanganate, of which 26.2 c.c. should be required as a minimum. The salt is described as containing not less than 99.5 per cent. of pure crystallised lead acetate. The titration figures given represent 99.35 per cent.

History of the Test.

The B.P. process seems to have been originally devised by Hempel over fifty years ago. It has never come into general use in analytical practice because it can only be used for pure lead salts or solutions, as so many other metals form insoluble oxalates. Hempel also suggested originally the application of the same process to calcium oxalate to obviate the tedious ignition to oxide before weighing. This is in common use. Fresenius ("Quant. Anal.," vol. i.) describes Hempel's lead process thus: "The solution is precipitated by excess of oxalic acid, the precipitate, after washing, dissolved in nitric acid, sulphuric acid added, and the solution titrated with permanganate." (Solution in nitric acid is not needed.) Sutton ("Vol. Analysis") gives a process as Hempel's which consists in precipitating the neutral solution by excess of standard oxalic acid and titrating the excess of oxalic by permanganate. To ascribe the latter process to Hempel is probably an error; only the method of precipitation as oxalate is due to Hempel, who titrated the precipitate instead of the excess of oxalic acid. Cowley and Catford ("Y.-B. P.," 1902, p. 501) also wrongly call the back-titration method Hempel's. Most of the oxalates are insoluble or sparingly soluble in water, and Leison (Crookes, "Select Methods") recommended a process somewhat similar for determination of cadmium, manganese, cobalt, and nickel by precipitation from an acetic solution containing alcohol, filtering off the precipitate, washing with dilute alcohol, drying off the alcohol completely (which would act strongly on permanganate), and titrating the precipitate with permanganate. Later these oxalate determinations were investigated by Peters (copper), Gooch and Ward (copper), Ward (lead and zinc), and the exact conditions necessary to ensure accuracy worked out. Their work shows that copper, lead, and zinc can be determined accurately by titration of the precipitated oxalate, the necessary conditions being as follows:

(1) The solutions should be hot and fairly concentrated, 50 to 100 c.c. volume.

(2) Fifty per cent. by volume of pure acetic acid (that is, glacial acid) should be contained in the solution at the precipitation.

(3) At least 2 grams of oxalic acid (hydrated—best added in crystals) should be present per 100 c.c. of acetic solution of the lead. The precipitate is filtered off in a Gooch crucible on an asbestos felt, then treated with dilute sulphuric acid, heated and titrated. Ward ("American Jour. Science," [4], xxxiii., 334) gave the following results in determination of lead by the above procedure:

(*a*) Lead taken, 0.1000 gram. Found, 0.1002, 0.1002, 0.1000 gram.

(*b*) Lead taken, 0.0250 gram. Found, 0.0256, 0.0250, 0.0256 gram.

(*c*) Lead taken, 0.1000 gram. Found, 0.1000, 0.1000, 0.1003 gram.

In the case of (*c*) the solution contained also 2 grams either of ammonium acetate or potassium acetate. For the precipitation of lead, ammonium oxalate in equivalent quantity can be substituted for the 2 grams of oxalic acid, and the presence of alkaline acetates in moderate amounts has no effect on the results under the above conditions of precipitation. Ward states that with 25 per cent. acetic acid present the precipitation is not quite complete.

At the time of publication of the B.P., 1914, the writer, who had previously followed the published work above, was inclined to suspect that the B.P. modification would, in most hands, give low results. It seemed worth while, then, to determine the possible error of the B.P. process, and incidentally compare the results with Ward's modifications.

The B.P. Process.

The British Pharmacopœia directs that 0.5 gram of the acetate be dissolved in water acidified with acetic acid. Presumably this acidification is only prescribed to give a clear solution, as the acetate loses acetic acid, and so some basic salt is formed on keeping, which may cause slightly imperfect solubility. For this purpose a few drops of dilute acetic acid are sufficient. A worker would in all probability add a few c.c. of acetic acid (of any strength from 10 per cent. to 30 per cent.); hence the percentage of acetic acid present would not, as a general rule, reach the equivalent of 1 per cent. pure acetic acid in the total solution of the lead salt, so that the results are likely to be lower than the truth. If a filter-paper is used, the transference of the precipitate from the paper to the flask requires extreme care, if loss is to be avoided. The Gooch crucible with a medium fine asbestos felt is the ideal filter for the process. After filtration and washing, the whole crucible and contents can be put into a beaker or a basin containing dilute sulphuric acid, and then titrated without removal of the crucible. Again, if a filter-paper is used without suction, the washing is tedious and more wash-water is required, which is likely still further to reduce the results, through the slight solubility of the salt in pure water, and also through the possible hydrolysis of the lead oxalate itself during washing, a basic salt and free oxalic acid being formed.

Experimental.

For this work pure refined lead was adopted as the standard substance, lead-foil (analytical reagent—Hopkin and Williams) being used. Such a lead contains from 99.96 to 100.00 per cent. pure lead; the silver, having been reduced to 5 parts per million, is quite negligible. The usual impurities are minute traces of iron, copper, zinc, and cadmium. Iron and copper could not be detected in a 5-gram sample of the lead when tested by ferrocyanide; 10 grams dissolved in nitric acid and evaporated, with addition of sulphuric acid and the lead sulphate filtered off, just allowed of the identification of a minute trace of cadmium and zinc in the filtrate. As these metals are also determined by this oxalate process, and when calculated as lead give from nearly twice (in case of cadmium) to three times (in case of zinc) as much lead as their own weight, it is evident that the lead in question had a standard value (for this oxalate process) of slightly over 100.00 per cent.—at most 100.05 per cent.—so that it may be taken as 100.00 per cent. lead without any appreciable error. The weights used had been recently adjusted and carefully calibrated. The mean error of all weighings does not exceed 0.0001 gram. With amounts of lead averaging 0.300 gram this would not give an error in the mean results of *plus* or *minus* 0.05 per cent. from the truth. The burette was carefully calibrated, the average error in readings of amounts from 20 c.c. to 35 c.c. being *plus* or *minus* 0.02 c.c. A special float for reading dark-coloured solutions was used for the permanganate. The total mean error due to inaccuracies in weighing and measuring together does not exceed *plus* or *minus* 0.1 per cent. Hence the variations shown in the analysis given may be regarded as purely experimental errors due to manipulation only.

The permanganate solution was made in May 1916, allowed to stand for three weeks (to oxidise traces of organic matter always present in distilled water), filtered through recently ignited asbestos, taking care to exclude dust, then standardised and diluted to be accurately $N/10$. The analyses in the tables given were carried out in August 1916, and the strength of permanganate was again determined. The best standard substance for this purpose is pure sodium oxalate; a brand of oxalate (prepared according to Sorensen's directions) which is specially made for the standardisation of permanganate was used. Sodium oxalate is an anhydrous salt, and only needs a few hours' drying at from 120° C. to 130° C. to free it from any trace of moisture before weighing it off.

A stock of dilute sulphuric acid was made up containing 3 c.c. to 4 c.c. of the strong acid per 100 c.c. It was heated nearly to boiling, and permanganate solution added, a drop at a time, till after keeping hot for half an hour the contents showed the faintest permanent pink tinge. (This procedure serves to neutralise any error that might be introduced through the presence of organic matter in the distilled water used for the solution of the oxalate. The same method was adopted for the titration also of the lead oxalate below.) Sodium oxalate 0.2 to 0.3 gram was weighed off, dissolved in 100 c.c. to 150 c.c. of the above dilute acid, the mixture heated to 60° to 70° C., and the permanganate run in till a just visible pink tint was permanent for one minute, when the flask was stood upon a sheet of white paper. It is important that the burette be excluded from the steam from the hot solution. This is easily done by slipping the burette through a large piece of cardboard or asbestos board, pierced by a hole, and pushing the card down nearly to the tap.

Ferrous ammonium sulphate is not a satisfactory standard

for the standardisation. Even if free from ferric salt there is always a doubt as to whether there is more or less water of crystallisation than the theoretical $6H_2O$ in the molecular weight of the salt. Recrystallised oxalic acid is also of doubtful composition for the same reason, also the acid is efflorescent.

Three titrations of the permanganate solution were made. The readings of the burette varied from 35 c.c. to 45 c.c. approximately, and the following factors for the strength of permanganate were obtained: 0.9988, 0.9994, 0.9995 mean 0.9992—*i.e.*, during three months the solution had only lost 0.08 per cent. of the original strength.

TABLE I.

This shows the results obtained with pure lead (Pb=207-1). All results are given.

No.	Lead taken (grams)	Total volume at precipitation	Oxalic acid added (grams)	Acetic acid (glacial) contained in solution at precipitation (per cent.)	Concentration of oxalic acid per 100 c.c. of solution (per cent.)	Lead found (grams)	Percentage of lead found	Mean percentages from solutions containing given percentage of acetic acid
1	0·2945	100 c.c.	2	50	2	0·2956	100·38	Mean 100·12% 50% acetic acid present
2	0·2204	60 c.c.		50	3·3	0·2201	99·86	
3	0·2032	70 c.c.		50	2·9	0·2033	100·05	
4	0·3209	100 c.c.		50	2	0·3218	100·28	
5	0·3536	50 c.c.	1	50	2	0·3538	100·05	
6	0·3123	100 c.c	2	25	2	0·3123	100·00	100·00 (25% acetic acid)
7	0·3765	150 c.c.	2	10	1·3	0·3762	99·88	99·88 (10% acetic acid)
8	0·3721	50 c.c.	1	5	2	0·3700	99.33	Mean 99·14. (5% acetic acid)
9	0·3159	80 c.c.	1	5	1·25	0·3155	99·54	

The lead was rinsed with dilute nitric acid, well washed, dried, and each of the above lots weighed out separately, dissolved in dilute nitric acid, and evaporated to complete dryness on the water-bath and heating continued till all trace of free nitric acid had been driven off, then dissolved in water, the amount of acetic acid indicated above added, the solution heated nearly to boiling, and the oxalic acid added, clean fresh crystals free from dust being selected. The solution was kept just below boiling-point for a few minutes, stirred well, then set aside for the precipitate to settle, and filtered when cold. Longer standing than two to three hours is unnecessary, as the precipitation is complete in that time. The precipitate was then filtered off in the Gooch crucible, using a moderately fine asbestos felt, washed well with small quantities of water, sucking dry after each addition, till all free oxalic acid was removed, then the whole crucible and contents put into a basin, about 100 to 150 c.c. of the hot dilute sulphuric acid (prepared as above) added, and the permanganate run in, at first drop by drop with constant stirring, as the solution is very slowly decolorised at first, then more rapidly till near the end point, keeping the burette excluded from the heat. The end point was taken as the faintest visibly pink tint, permanent for one minute. (The precaution of adding drop by drop at first is imperative, as, if the solution becomes brownish, even though it clears afterwards, erratic results are obtained in titrations with permanganate.) In the evaporation of the lead solution to dryness great care was taken to exclude dust as much as possible, the water-bath being covered closely by a Victor Meyer funnel. This evaporation is a weak point in the use of metallic lead as a standard for this (permanganate) process, as, with all due care, dust cannot be completely excluded during evaporation, and this, acting on the permanganate, may cause a slight increase in the results. This is probably one reason for the tendency of the results of 1 to 5 to be slightly in excess of 100 per cent. The burette readings in all cases were referred to 15° C., and when the room temperature was over 17° C. a correction for expansion of the solution was made to reduce the readings to 15° C., Schloesser's table for expansion of $N/10$ solutions being used.

While it is necessary to wash the precipitate free from oxalic acid, it is important not to use excessive amounts of wash-water. In most cases the total filtrate and washings varied from 60 to 80 c.c., and with proper manipulation of the washing these quantities need not be exceeded. The precipitate should be transferred and finally washed with repeated small amounts of water, sucking fairly dry between each addition. Washing with too much water will probably cause loss through the slight solubility of the precipitate in pure water.

The results in Table I. show conclusively that a high concentration of acetic acid is necessary for accurate results. For quantities approaching those taken—viz., from 0.2 to 0.4 grm. of lead, equivalent to from 0.4 to 0.6 grm. lead acetate, at least 25 per cent. of acetic acid is required, and 50 per cent. is generally preferable as recommended by Ward. The low results obtained as the percentage of acetic acid is diminished may be due either to one or both of the following reasons: (1) Incomplete precipitation, (2) tendency of the precipitate to form a basic oxalate which reduces the amount of the oxalic acid radical in the precipitate. In a neutral or barely acid solution this tendency would reach its maximum effect. The filtrate, from neutral solutions even, gives no precipitate with sulphuretted hydrogen, although allowed to stand for some time, and only shows a faint brown tint at most, when the sulphuretted solution is viewed through a deep column of the liquid, so that evidently the low results are but very slightly due to incomplete precipitation of the lead, and hence the most likely reason is the presence of a basic oxalate in the precipitate.

A new series of titrations was carried out, using a lead-acetate solution containing approximately 16 grams of chemically pure lead acetate (slightly effloresced) per litre, and varying volumes of this solution measured off from calibrated vessels.

The results shown in Table II. seem to confirm the general results of Table I.

TABLE II.

No.	Total volume at precipitation	Oxalic acid added (grms.)	Acetic acid (glacial) contained in solution at precipitation (per cent.)	Concentration of oxalic acid per 100 c.c. of solution (per cent.)	Lead acetate (crystalline) found (grams per litre)	Relative percentage of lead acetate found
1	60 c.c.	2	50	3·3	16·429	Called 100% standard
2	85 c.c.	2	6	2·3	16·375	99·67
3	60 c.c.	1	4	1·6	16·384	99·74
4	50 c.c.	1	1·5	2·0	16·320	99·34

A large excess of oxalic acid seems to be necessary to give the best results. The B.P. only specifies that an excess of normal oxalic acid (6.3 per cent.) be used. Even where, in above tables, only one gram of oxalic acid was added, this amount is about four to eight times the theoretical amount required. Two grams of oxalic acid for every 100 c.c. of the acetic solution is probably about the least amount that should be used, whatever be the amount of lead present. Should the excess of oxalic acid be but little over the amount required by theory, a lowering of results may possibly be expected on account of the tendency noted above to form basic salts.

The B.P. process is not a purely volumetric one, since it involves the titration of a precipitate which has to be collected with all precautions against loss. Hence, even the modification given above has no advantage over the usual gravimetric process for determining lead by weighing as the sulphate (using a Gooch crucible). It may be more convenient to use the volumetric process, however, when a series of lead determinations are being conducted and a recently verified $N/10$ permanganate solution is at hand. The atomic weight for lead, used for the calculation of values found above, was that of the B.P. 1914—vi., 207.1. The present value (since 1916) is now given as 207.2 in the International Table of Atomic Weights. Taking this latter value, all the absolute percentages found in Table I. should be increased by 0.05 per cent. As the percentages in Table II. are merely relative to experiment 1 of that table, the relative values there given are unaffected.

LIQUOR PLUMBI SUBACETATIS FORTIS B.P.

The B.P. process is as follows: One gram of the solution is diluted with 20 c.c. of water, mixed with excess of $N/1$ oxalic acid, and the precipitate, after collecting on a filter and washing, is titrated in the same way as described under the acetate. No addition of acetic acid is specified previous to precipitation. It is more necessary to acidify the solution here than in the case of the acetate where such an addition is ordered. Since dilution will cause a precipitate to form, unless the water used has been well boiled, contamination of the precipitate with a basic salt is

more likely to occur in the case of the liquor, and hence the result is likely to be more below the truth than in the case of the acetate crystals.

The present U.S.P. (Ed. IX.) gives no process for determining lead acetate, but describes one under the subacetate solution which consists in precipitating the solution after dilution with well-boiled water by a known excess of $N/10$ oxalic acid, making up to a measured volume, and titrating the excess (after clearing by subsidence) in an aliquot part of the supernatant liquid. From the conclusions drawn above, the lead precipitate here, since no acetic acid is added, will be deficient in the oxalic acid radical, hence this last process must give results correspondingly higher than the truth. Any addition of acetic acid is inadmissible here, unless a pure ("analytical reagent") acid is used; all Pharmacopœias tolerate too high a limit of matter oxidisable by permanganate to allow of titrations of solutions containing such acetic acid. Pure acetic acid itself has no action on permanganate. This same process is proposed for inclusion in the next U.S.P., for lead acetate as well as the liquor, only the details of manipulation are altered. Squire's "Companion" (nineteenth edition) gives these details in full. Objections to this back-titration process are that it requires the use of two standard solutions and that $N/10$ oxalic acid depreciates very rapidly in strength. The standard proposed for the U.S.P., using this last process for the acetate, is "not less than 85.31 per cent., and not more than 89.57 per cent. of the anhydrous lead acetate," equivalent to from 99.5 per cent. to 104.5 per cent. approximately of crystalline lead acetate.

Cowley and Catford, "Determination of Lead in Lead Salts" ("Y.-B. P.," 1902, p. 501), recommended the direct titration of the precipitate (the present process of B.P.), but precipitated the neutral solution of the salt by $N/10$ oxalic acid. They repeatedly found that the titration of the excess of oxalic acid in filtrate gave higher results than the direct titration of the precipitate, and they advanced as a reason for this the supposed action of the acid liberated (from the salt) on the permanganate. They worked with lead nitrate and lead acetate. Pure nitric acid has, however, no action on permanganate, and pure acetic acid has also no action, hence their explanation does not hold in the case of the nitrate, and the extremely small amount of combined acetic acid in a quantity of less than one gram of acetate could not contain sufficient matter oxidisable by permanganate to affect the results, supposing that the acetic acid originally used in the manufacture of the salt contained the usual amount of oxidisable impurity. Hence, in this case also, their explanation does not hold. The true reason for this difference has been shown in this article to be due to the fact that the direct titration, when neutral lead solutions have been precipitated, gives results below the truth, while the back titration of the oxalic acid in filtrate gives results correspondingly above the truth. Cowley and Catford took the direct process to be accurate, but they supported this by giving figures for only two test analyses, one of which is unsatisfactory. As a matter of fact, one process is practically as accurate as the other, but, since the errors are in opposite directions, the difference between the results obtained is twice the error from the truth. Thus, a pure salt 100 per cent. would give approximately 99.5 per cent. by Cowley and Catford's direct procedure, while the titration of the filtrate, if accurately carried out, should show 100.5 per cent.

Suggested Modification of B.P. Directions.

Lead Acetate.—"Dissolve 0.5 gram of the lead acetate in 50 c.c. of acetic acid (B.P., 33 per cent.), heat the solution nearly to the boiling-point, add one gram of pure oxalic acid crystals, and stir for a few minutes; set aside and filter when cold. The precipitate collected, washed," etc.

Liq. Plumb. Subacet. Fort.—"When a gram is diluted with 50 c.c. of acetic acid (B.P., 33 per cent.), the solution heated nearly to boiling, one gram oxalic acid crystals added, and the whole well stirred for some minutes, and filtered when cold, the precipitate collected, washed," etc.

The B.P. 33 per cent. acetic acid is adopted here as a matter of convenience, but for general use where, say, the amount of lead in a solution is not approximately known, it is safer to adhere to a strength of 50 per cent. of absolute acetic acid. The total mean error (found above, Table I., Nos. 1 to 5) is +0.12 per cent. (Pb=207.1) or +0.17 per cent. (Pb=207.2—, 1918). This is well within the permissible error for any accurate analytical process which involves the quantitative collection of a precipitate. It may be noted that this error approximates closely to that found in the analyses given by Ward (*a* and *c*). In (*b*) the error is higher, but still such a result is good, considering the small amount of lead taken. (These percentage errors are calculated on 100 parts of the substance (Pb or PbA) actually present.)

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

Association of Liquid Chemical Fire Extinguisher Manufacturers, Ltd.—Limited by guarantee. Objects as title. R.O., 26 Budge Row, London, E.C.

Carina, Ltd. (P.C.).—Capital 1,000*l*. Objects: To carry on business as chemists, druggists, drysalters, oil and colourmen, etc. R.O., 19 St. Dunstan's Hill, London, E.C. 3.

S. H. M. Co., Ltd. (P.C.).—Capital 5,000*l*. Objects: To carry on business as chemists, druggists, oil and colourmen, etc. R.O., Manor House, Sutton Lane, Heston, Hounslow.

Bierley Chemical Co., Ltd. (P.C.).—Capital 20,000*l*. Objects: To carry on business as dyeware and chemical manufacturers, etc. R.O., Bierley Works, Oakenshaw, near Bradford.

W. Bennison & Co., Ltd. (P.C.).—Capital 5,000*l*. Objects: To acquire the business of chemical merchants carried on at 59 Mark Lane, E.C., as "W. Bennison & Co." R.O., 8 Cale Street, Chelsea, London, S.W. 6.

Dried Herb and Vegetable Co., Ltd. (P.C.).—Capital 2,000*l*. Objects: To take over the business of herb and vegetable dryers formerly carried on by the Glazed Pressed Beef Co., Ltd., at 60 Beaconsfield Road, New Southgate, N. R.O., 60 Beaconsfield Road, New Southgate, London, N.

Commercial Chemicals (Manchester), Ltd.—(P.C.) Capital, 10,000*l*. Objects: To carry on business as pharmaceutical, manufacturing, and general chemists, druggists, drysalters, oil and colourmen, manufacturers of aniline and other dyes, photographic materials, soaps, oils and waste materials, &c.

Raymet & Co., Ltd. (P.C.).—Capital 2,000*l*. Objects: To take over the business of a manufacturing chemist carried on by E. C. Barritt at 499 Harrow Road, London, W., as "Raymet & Co." The first directors are E. C. Barritt, 499 Harrow Road, W., chemist, and E. A. Lauric, 668 Harrow Road, W. 10, stationer.

Cambuslang Medical Hall, Ltd. (P.C.).—Capital 1,000*l*. Objects: To take over the business of chemists and druggists carried on by James Allison, M.D., and James Allison, M.B., Ch.B., at 126 Main Street, and 138 Hamilton Road, Cambuslang, as "Doctors J. and J. L. Allison." R.O., 126 Main Street, Cambuslang.

British Chemical Trade Association.—Registered as a company limited by guarantee, not formed for purpose of profit, the word "Limited" being omitted from the title by licence of the Board of Trade. The objects of the Association are: To promote and assist trade in chemicals and kindred articles, to provide for the accurate sampling, analysis, and examination of the same and the ascertaining and certifying of the results thereof; to establish in the trade uniformity in commercial usages, particularly with regard to forms of contracts, charter-parties, bills of lading, insurance policies, and other documents, and to promote the voluntary (but not compulsory) adoption thereof; to obtain any Provisional Order or Act of Parliament for enabling the Association to carry any of its objects into effect; to institute, promote, support, or oppose legislative or other measures affecting the trade; to collect and circulate statistical and other information; to act as arbitrators, etc. The first members of the General Committee are: W. Mann (Mann & Cook), 7 St. Michael's Alley, E.C. (President): H. Slater (Perry, Mills & Co.), 61-3 Gracechurch Street, E.C. (Vice-President); A. J. B. Arnold (Horace Batten & Co., Ltd.), 2 Fenchurch Avenue, E.C.; S. J. C. Mason, 24 Minories, E. 1; W. C. Castle (John Batt & Co., London, Ltd.), 39 Old Broad Street, E.C.; F. W. Powell, 85 Blackfriars Road, S.E.; R. J. D. Roff (Thornett & Fehr), Baltic House, E.C.; D. J. Truscott, Cross Keys House, E.C.: W. Dexter (Dexter's, Ltd.), 362 City Road, E.C.; F. R. Lankshear (Lankshear, Wickstead & Co., Ltd.), Botany Mill, Woodley, near Stockport; C. C. Bryce (Bryce, Robartes & Co.), 43 Great Tower Street, E.C.; A. J. Bennett, 99 Fenchurch Street, E.C.; and H. J. Bridger (O. Murray & Co., Ltd., 69 70 Mark Lane, E.C. R.O.: 80 Fenchurch Street, London, E.C. 2.

United Alkali Co., Ltd.—The directors announce a final dividend of 2*s*. per share, less tax, making 3*s*. for the year.

Joint-stock Companies.—Notice is given in the "London Gazette" that the names of the undermentioned companies have been struck off the Register and the companies dissolved: Isle of Thanet Mineral Water Co. Ltd.; Patrice Toilet Specialities, Ltd.; Plants Planteids, Ltd.

Legal Reports.

Uncustomed Saccharin.—At Tower Bridge Police Court, London, on March 10, Harold Bunce, Standard Street, Southwark, S.E., was summoned for removing and keeping uncustomed goods, assaulting a Customs officer, and obstructing Customs officers. The facts of the case, which related to the abstraction of 7 lb. of saccharin from a van and the subsequent discovery of uncustomed cigars and other articles, had been placed before the Court at a previous hearing (*C. & D.*, January 25, p. 35), when a medical certificate to the effect that Harold Bunce was insane was produced. He was now fined 150*l.* on the summons for removing the goods, 50*l.* for keeping them, and 25*l.* for the assault.—225*l.* in all, with the alternative of three months' imprisonment; John Bunce was fined 50*l.*; and Hill 2*l.*

The Sale of Wine.—In the King's Bench Division, Dublin, on March 7, in the case of Alex. Frew *v.* Hugh Marshall & Co., Ltd., Mr. Ellison, on behalf of the defendants, who are wholesale druggists, York Road, Belfast, applied for an order for discovery of documents. The plaintiff is a licensed hotel proprietor at the Victoria Hotel, Carlisle Road, Londonderry, and he brings the action to recover 85*l.* 8*s.* 10*d.* for alleged breach of contract in connection with the sale of three quarter-casks of wine by the defendants to him. The defendants, it was alleged, warranted the wine to be port wine of good quality, but plaintiff alleged that the article supplied was a cheap British-manufactured wine of very poor quality, and was worthless to the plaintiff, or worth less than the sums he paid for it. The defendants denied all the allegations made by the plaintiff, and that the agent who sold the wine to the plaintiff was their agent for the purpose of making the contracts, and they said they were not aware that he was making them. Mr. Justice Powell made the order sought.

Manager's Commission Claim.—At the Birmingham County Court, on March 7, judgment was given in a case in which Lewis Southern claimed 100*l.* for commission from Needhams, Ltd. Defendants paid the sum of 19*l.* 12*s.* 6*d.* into Court. Judge Amphlett said, although the case took a considerable time to try, and involved the examination of a large number of figures, it ultimately reduced itself to a very small question—namely, whether the commission plaintiff was entitled to was based on the audited accounts. There was a clause in the agreement that the auditor's certificate should be conclusive as to yearly profits. The plaintiff, however, contended that the auditor had adopted a thoroughly wrong basis in preparing the accounts. Mr. Ward, for the plaintiff, argued that the accounts had been erroneously compiled. Such accounts are somewhat complicated, and after carefully considering the matter it occurred to him that it would be advisable, in the interests of the parties, that they should agree to refer a particular point to a chartered accountant. This was agreed to. The accountant having given the matter his careful consideration, has expressed the opinion that the abridged account submitted to him was properly drawn up so as to show the actual trading profits of the defendants. His Honour gave judgment for the defendants, with costs.

More Tales of Oenophus.

XII.—Ugoh and Ye Pylke.

Wherefore Ugoh, being comparatyvely Yonge and Unafrayed, discusseth Topicks that are Square—but Secrete. For ye whych he is Contemned as Lackynge inne Good Tayste and Decencie.

Whereupon Ye Pylke, a Gaseouse Produkte of Yorkesshyre, forsaketh hys Xam-facktorie to teche Ugoh Manneres.

Butte brode are ye Smyles Worne by ye Multitude, for ye Gentlemanlienesse of Ye Pylke is Proverbiale.

Thus Ye Pylke inne Characteristick Fashione emitteth Muche Verbositie amonge Hys Compeeres, and Menne watche for ye Witherynge-Uppe of Ugoh and ye Hynde.

Menewhyle Morctone of Lyvers Pool parryeth Thrustes from Payed Officiales and Chayne-Barers. Butte alle is done inne Decencie and Good Ordere. Dignitie, as Ever, is ye Rulynge Note.

Muche Palaver leavynge Ugoh and ye Hynde Unwithered ye Torrente dieth of Inanitione.

Butte as a Signo of Vertue and Dignitie Restored ye Principale Chayne-Barer is prevayled upon to brynge ye Proceedynges to a Fyttinge Close withe anne Eyrishe Jygge.

Cocaine Cases.

At Wokingham Petty Sessions, on March 11, Mr. Leonard J. Griffith, chemist and druggist, Market Place, appeared in answer to two summonses for supplying cocaine upon an order purporting to be a doctor's prescription that did not bear the medical practitioner's full name, address, and qualifications, and was not marked with the words "Not to be repeated." The dates of the alleged offences were March 5 and March 18, 1918, and the proceedings were instituted under 40B of the Defence of the Realm Regulations. Mr. J. E. Clifton, who appeared for the defendant, submitted that as the alleged offences were committed in March 1918 the prosecution was taken too late, and that the Court had therefore no jurisdiction under the Summary Jurisdiction Act. The Bench upheld this contention and dismissed the summonses. There was a further summons for failing to keep a cocaine register, and the explanation offered was that as the cocaine in respect of which no entry was made was supplied to a recognised war hospital, Mr. Griffith did not think it necessary to register it. The Bench held there had been a technical breach of the Regulation, but, without recording a conviction, ordered Mr. Griffith to pay the costs.

At the same Court, on March 11, Dr. A. Gordon Paterson was summoned for supplying a prescription for cocaine suppositories without inserting the words "Not to be repeated." Dr. Paterson, in defence, explained that when he saw the patient he had just undergone medical examination, the result of which had so perturbed him that the oversight was, in the circumstances, natural. The Bench dismissed the summons on payment of costs.—At the same Court, on the same day, Mr. T. G. Stewart, chemist and druggist, Bracknell, was summoned for dispensing the prescription for cocaine suppositories written by Dr. Paterson. Mr. C. H. Kirby (Beck, Neve & Kirby), who defended on behalf of the Chemists' Defence Association, said that everything was in order on the prescription with the exception of the omission mentioned in the previous case. The dispenser, although he failed to notice the omission, retained the prescription, so no harm was done. The Bench dismissed the summons on payment of costs.

At Bow Street Police Court, London, on March 10, Violet Fawdon and Minnie Thompson were charged on remand with being unauthorised persons found in the unlawful possession of cocaine, in contravention of Regulation 40B of the Defence of the Realm Act. The case against Thompson was withdrawn, owing to lack of evidence. Dr. Dunn, divisional surgeon, said that three packets of powder found on Fawdon contained 1 gr. of crystallised matter which appeared to him to be cocaine hydrochloride with a certain admixture of boracic acid. A detective stated that Fawdon had been convicted with five others of procuring and possessing cocaine, and had been sentenced to three months' imprisonment. Since her release she had associated with men who had been convicted of similar offences. Sentence of six months' imprisonment in the second division was passed.

At the same Court, on March 7, R. R. de Veulle was committed for trial on charges of manslaughter and of conspiring with another person to procure cocaine (*C. & D.*, March 8, p. 47). During this hearing Dr. F. Stuart was further cross-examined, one matter being the trional cachets found by him in the deceased's flat after death had taken place. Dr. Stuart having stated that he lent a stock box of these cachets to Miss Carleton, the cross-examination proceeded as follows: Are you drawing a distinction between giving those cachets and lending them to Miss Carleton—yes or no?—Yes, I am drawing a distinction. Didn't you get these cachets from Heppells', in the Strand?—Not that box. I got it from Barnes, of Knightsbridge. I handed the box to Miss Carleton just as I got it from the chemist's. Are you still going to say you only lent the box to Miss Carleton?—I left it with her in case she wanted to take one. They break if you take them out. The defendant was granted bail.

Oiled Silk was used in a Woolwich church to replace glass blown out of the windows on February 16, 1918, by an enemy bomb.

Farcical Sketches dealing with "dope" have made their appearance in London music-halls. In one, the "coc" is sprinkled on the victims by means of a pepper-box.

The Better Half.—A lady who has had a prescription dispensed several times asked her pharmacist, one day, for advice. "My husband won't go to sleep without one of those powders now," she said. "Why don't you try giving the patient a half," suggested the chemist, "and see if that induces sleep?" "I might," murmured the lady thoughtfully, "but it's so difficult to obtain nowadays!"

Ministry of Health Bill.

The North British Executive of the Pharmaceutical Society of Great Britain has addressed the following letter to the Secretary for Scotland and the members of Parliament representing Scottish constituencies in the House of Commons.

We thank you for your kind interest and attention, and are glad to know there is to be a separate Ministry of Health Bill for Scotland, which we trust will embody the points we have already submitted to you. We most earnestly desire a separate Minister of Health free from the control of the Scottish Office.

We desire to amplify the sentences in our letter of February 22 in which we say, "We claim that wherever medical practitioners are represented on Boards dealing with national health, pharmacists (dispensing chemists) should also be represented. . . . Just as the former are essential for effectively dealing with the medical service, so the latter are essential for effectively dealing with the pharmaceutical service."

There is a popular fallacy which assumes that a medical practitioner knows all that a pharmacist knows, and a great deal more. That is a complete mistake, and the medical practitioner would be the first to admit that while he is expected to have expert knowledge of the properties, actions and uses of medicines and medical and surgical appliances, he does not claim, but leaves to the duly qualified pharmacist, that expert knowledge of the sources, purchasing, manufacture, storage and dispensing of medicines, and the procuring and supplying of medical and surgical appliances. In short, he finds it necessary to give his whole attention to the practice of his profession, and trusts the pharmacist to furnish everything he requires of proper standard and in a proper form for medical and surgical treatment.

In support of the strong plea we desire to make for the inclusion of a duly qualified pharmacist in the Scottish Board of Health, we submit the following considerations:

1. This is the more necessary under modern conditions in view of the necessity for securing that all articles of the Materia Medica must conform to characters and tests of a high standard fixed by the General Medical Council, assisted by a Committee of Reference in Pharmacy composed of eminent pharmacists nominated by the Pharmaceutical Societies of Great Britain and of Ireland.

2. It is also more necessary in view of the greatly extended range of drugs and appliances now included in the category of medicines and medical and surgical appliances. These now include chemically and physiologically standardised medicines, and a wide range of serums and vaccines demanding a much higher degree of skill and knowledge on the part of the pharmacist.

3. There are also the increasingly important departments of *x*-ray work, practical bacteriology, urine analysis, examination of blood, testing drinking-water and foods, etc., which are already to a considerable extent in the hands of pharmacists, and likely to be more so as the scheme of a National Health Service is developed.

4. There are also the planning and equipment of research laboratories or dispensaries, the organisation and administration of the pharmaceutical service in county and burgh hospitals, and in public hospitals or infirmaries, and the maintenance and equipment of sanatoria. There are also many matters relating to public health and preventive medicines, in regard to disinfectants and deodorants, and to the making, standardising, procuring, storage, and distribution of germicides, fungicides, and vermicides, which more properly belong to the sphere of the pharmacist.

5. The Board of Health will constantly and increasingly have to deal with the best methods of providing a proper and sufficient supply of medicines and medical and surgical appliances. This requires experience and intimate knowledge of the sources of supply of all drugs and appliances, the market conditions, and the proper terms of agreement to be made with persons, firms, or bodies corporate lawfully entitled to carry on the business of a dispensing chemist.

6. Owing to the greatly extended field of modern medical and surgical practice, necessitating as it does specialisation on the part of medical practitioners, it inevitably follows that everything relating to pharmaceutical service and the preparing, standardising, and dispensing of medicines and medical and surgical appliances, including vaccines and serums, has to be practically entirely relegated and entrusted to the duly qualified pharmacist.

7. In addition to all this it has been clearly proved by experience under the National Health Insurance Acts that the good results obtained and the efficiency of medical benefit on its pharmaceutical side have been largely due to the special work which only a qualified pharmacist is competent to do. We can confidently appeal to those responsible for National Health Insurance in Scotland for confirmation of this fact.

We make this request because we sincerely believe it will promote the efficiency of pharmaceutical practice in Scotland, and thereby benefit the profession to which we belong, but we believe we are thoroughly justified in pressing for its acceptance on public grounds and in the best interests of a really adequate health service for the nation. We therefore very earnestly appeal to you for your vote and influence to secure its acceptance by the Secretary for Scotland and the Government.

A New Use for Olibanum.

The trade in olibanum in this country is of a fluctuating character, and the bulk of the imports are re-exported, as the demand for incense in Great Britain is small. The following figures (packages) represent the landings and deliveries in London during the past six years:

	1913	1914	1915	1916	1917	1918
Landings ...	678	518	3,291	4,015	4,964	713
Deliveries ...	1,042	562	1,918	4,068	3,024	1,191

Certain parts of the Empire, notably Somaliland, the Sudan, and India, are bountifully provided with Boswellia trees, yielding olibanum in large quantities, and the problem of finding new uses and a larger market for this material has for many years seemed insoluble. A possible solution is indicated in "Indian Forest Records," vol. vi., part vi., published recently in Calcutta. Experiments undertaken by the Indian Forest Department showed that by suitable methods of tapping a yield of about 2¼ lb. of crude oleo-gum-resin per tree can be counted upon, and as the numbers of the trees run into a good many millions there can be no question of the abundance of raw material. On steam distillation, followed by extraction of the non-volatile residue with a suitable solvent, 100 maunds (a maund=81 lb.) of the oleo-gum-resin furnish 77 gallons of "turpentine," 55 maunds of "rosin," and 22 maunds of gum. All these products have been examined, both by the Chemical Adviser to the Forest Department in India and by the Imperial Institute in London, and these experts have had them tried by firms in India and the United Kingdom, so that the industrial value of the products appears to be as clearly established as is possible on the basis of small scale trials. The Imperial Institute report on the turpentine shows that it had specific gravity 0.8446 and optical rotation +31 24′, whilst 89 per cent. of it boiled from 153—160° C., indicating that it ranks with the best grades of French and American turpentine. The rosin differs entirely in constitution from commercial pine rosin since, according to the Institute experts, its acid value is only 55.1. This puts it out of court for preparing rosin soaps and sizes, but there is no reason why it should not be used for those purposes to which rosin is applied which do not involve solution in alkalis. The solubility of Boswellia rosin in organic solvents seems to be quite similar to that of pine rosin. The value of the gum is less certain, since, although some firms in India thought it might be used as a sizing and finishing material for textiles and paper, the reports made by the Institute and the British firms they consulted are not very hopeful that Boswellia gum can compete with any of the gums that come on the market for these purposes. The Calcutta note concludes with an estimate of the possible profits of the industry. According to this, the cost of collecting and treating 100 maunds of the crude product would amount to 780 rupees, whilst the proceeds of the sale of the turpentine, rosin, and gum would be about 853 rupees, leaving a profit of nearly 73 rupees, or about 5*l*., on the treatment of about 3½ tons of material. The margin of profit is rather narrow, but the estimate appears to have been constructed on a safely conservative basis, and the matter seems sufficiently promising for the Forest Department to conduct a large-scale trial. New sources of supply of turpentine and rosin within the Empire are badly needed, and no possible new source should be neglected. In this connection it is interesting to note that a recent number of the "Indian Forester" contains an interesting account of the new Government turpentine and rosin factory recently established at Jalloo, in the Punjab, and which is now apparently in proper working order.

Dentists Act Committee.

III.

Previous articles have dealt with (1) the suggestions for the recognition of those who practise dentistry but are not already registered, and (2) a summary of the findings of the Committee. We now print Section II. of the Report, which deals with

Dental Practice in Great Britain and Ireland.

It follows a review of the Dentists Act, 1878, and the legal decisions given since the Act came into force.

The Registered Dentists.—These consist of a body of practitioners whose names and qualifications are registered in accordance with Section II. of the Dentists Act, 1878. The Register is in the custody of the General Registrar of the General Medical Council, which Council has the duty of causing a correct copy of the Register to be printed, published, and sold at least once a year. To qualify for registration it has been necessary for the applicant since 1879 either to be—

(*a*) A licentiate in dental surgery or dentistry of any of the medical authorities having power to grant surgical degrees.

(*b*) Entitled to be registered as a foreign or Colonial dentist in accordance with Sections 8-10 of the Dentists Act, 1878.

In addition to those registered under (*a*) or (*b*) a number of practitioners were registered before August 1, 1879, under Section 6 of the Dentists Act, 1878. This section provided that any person who at the passing of the Act was "*bona fide* engaged in the practice of dentistry or dental surgery, either separately or in conjunction with the practice of medicine, surgery, or pharmacy, shall be entitled to be registered." An applicant for registration under Section 6 had to produce or transmit to the Registrar a declaration signed by him in a form prescribed in a schedule to the Act. The form prescribed was as follows:

I, , residing at
hereby declare that I was *bona fide* engaged in the practice of dentistry at , at the date of the passing of the Dentists Act, 1878.
(Signed)
(Witness)
Dated this day of , 18 .

The Registrar was given power, if he saw fit, to require an affirmation as to the truth of a declaration. Provision was also made in Section 37 for the registration, under certain conditions, of articled pupils, dental students, and apprentices.

We understand that many persons were, under Sections 6 and 37, admitted to registration with very little inquiry, and Sir Donald MacAlister, in giving evidence before us, stated:

"The Dentists Act which was passed in 1878 provided for the recognition of those who had been actually students or apprentices at the time, as well as those who had been in practice. The result was that a large number of very immature persons got the necessary papers and appeared either as nominal students or apprentices, and they still appear in the Register. Now and then we have a person brought before us who was registered in 1878, who, when we look at him, must have been registered when he was ten or eleven years of age, if his statements are correct."

The number of licentiates in dental surgery in 1878 was very few, and the first Register compiled under the Dentists Act, 1878, was mainly composed of the names of persons who, on their own declaration, were stated to be engaged in the *bona fide* practice of dentistry at that date or who were admitted by virtue of being dental students or apprentices. The position at the present time is fundamentally different. Out of 5,524 persons whose names appear in the Dentists Register for 1918, no fewer than 4,214, or 76 per cent., were licentiates or graduates in dentistry. The names of 1,274 persons admitted by virtue of practice without any additional qualification in 1878 still remained on the Register, but many of these have doubtless retired from the active work of their profession. Those still practising have had forty years' experience, which in a measure compensates for the want of training and instruction which may have been lacking in their case at the time of their registration in 1879.

The dental profession at the present time consists of about 5,500 registered practitioners, of whom at least 75 per cent. are either licentiates or graduates in dental surgery after approved courses of instruction and training tested by examinations.

The remaining 25 per cent. is a rapidly declining body of practitioners of long experience, who were admitted to the profession in 1878. The number of Colonial and foreign dentists appearing in the Dentists Register is practically negligible, being only twenty-nine in 1918.

The Medical Practitioner as Dentist.—All legally qualified medical practitioners are entitled to practise dentistry, and have the same legal rights to recover fees as a dentist registered under the Dentists Act of 1878. A legally qualified medical practitioner is exempted from any disability in the practice of dentistry that is imposed on persons, other than registered dentists, by the Dentists Act, 1878.

Unregistered Dental Practitioners.—In addition to dentists registered under the Dentists Act and medical practitioners there are in the United Kingdom a large number of persons practising dentistry, in some or all of its forms, devoting the whole or part of their time to dental work. The evidence submitted to us is to the effect that, until the outbreak of the war, the tendency was for unregistered dental practice to increase. Especially was this the case with unregistered dental company practice. A number of unregistered dental practitioners have formed Associations to protect their interests, and some of them regulate the conditions under which their members shall practise, and the ethical standard that shall be observed. The most important of these Associations is the Incorporated Dental Society, Limited, which had until recently a membership of about 1,600. This Society expects its members to observe a certain professional standard, has provided clinics and arranged lectures for the benefit of its members, and, in recent years, has insisted on new members passing an examination test conducted by its own members. The number of unregistered dental practitioners who are members of some recognised dental Society is about 2,000.

In addition to persons practising on their own account there are a large number of unregistered practitioners engaged in dental company work. The business of dental companies is mainly pursued by means of skilled advertising, sometimes of a misleading character, and by personal house-to-house canvassing. The sale of artificial teeth is the main part of company business, and so-called easy instalment systems of payment are frequently used to induce persons of limited means to consent to having teeth removed and artificial dentures substituted. The evils of some forms of dental company practice have been represented to us in the strongest possible terms. The evidence in this respect comes from representatives of unregistered practitioners as well as from the registered dentist. In addition to company practice there are a large number of unregistered practitioners of indifferent general education who have set up as dental practitioners without any training or instruction whatsoever. By means of specious advertising and personal canvassing they ply their calling to the danger of the public, but with very lucrative results to themselves.

We find ourselves unable to frame an estimate of the total number of unregistered practitioners. Their names do not appear in local or trade directories under any particular headings. Their total number is certainly much greater than that of registered dental practitioners. Whatever may be the precise number of unregistered practitioners *the evidence submitted to us is conclusive that it is the least reputable section of unregistered dental practice that has increased most, and tends to increase. This constitutes a menace alike to the public health, the registered dental profession, and the more reputable unregistered practitioners.*

Evidence submitted to us indicates that dental practice is carried on by unregistered persons of widely varying grades of social standing, education, and training, ranging from the few fully trained and qualified practitioners who have refrained from registering, the graduate from a dental college, or an University in the United States, and the old-standing experienced unregistered practitioner, to the insurance or sewing-machine canvasser, the butcher, and the blacksmith.

The Chemists' Dental Society is holding an extraordinary general meeting at 17 Bloomsbury Square, London, W.C., on March 27, at 3 p.m., to consider the future policy of the Society in view of the Report of the Dentists Act Committee. In view of the importance of the occasion members who cannot be present are asked to inform the Hon. Secretary (Mr. Benson Harries, 84 Commercial Road, Newport, Mon.) as to their views on the Report, so that the replies may be tabulated for presentation at the meeting.

"Ways and Means" is the title of a new 6*d*. weekly review of industry and social progress, of which the first number has just been issued. Among the contents is an article by Mr. J. H. Whitley, M.P., dealing with Industrial Councils, and Sir George Paish writes on the financial situation.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

Merchandise Marks Act.

The Government has decided to appoint a Departmental Committee to advise the Board of Trade as to the desirability of amending the existing provisions of the Merchandise Marks Act, so far as concerns the indication of the origin of imported goods.

Export of Spraying-mixtures to France.

According to the Parliamentary Secretary to the Board of Trade, heavy losses are threatened to firms in this country by the repudiation of contracts by French importers of sulphate of copper and spraying-mixtures. This action is due to the lowering of the price in France of these articles.

Poisons and Pharmacy Act, 1908.

Sir J. Agg-Gardner asked the Home Secretary on March 10 whether he can now state what action, if any, has been taken under Section 4 (*b*) of the Poisons and Pharmacy Act, 1908, to enable certified assistants to apothecaries to be registered as pharmaceutical chemists or chemists and druggists.

Mr. Shortt replied that this matter is now under the close consideration of the Pharmaceutical Society, and it is hoped that before long a by-law in the sense indicated will be submitted for the approval of the Privy Council.

Narcotic Drugs Control.

It was stated in the House of Commons on March 10 that the Government hopes to be able to bring the question of the control of narcotic drugs before the Peace Conference, with a view to the adoption of a resolution binding the Powers represented at the Conference to the speedy enactment and enforcement of the laws, regulations, and measures contemplated by the Opium Convention of 1912 for the purpose of confining to medical and legitimate purposes the manufacture, sale, and use of opium, morphine, cocaine, and similar noxious and habit-forming drugs; such a resolution to be made binding on the enemy Powers.

Cost of National Chemical Factories.

The Parliamentary Secretary of the Minister of Munitions stated in the House of Commons on March 5 that the estimated cost of national explosive and chemical factories is 28,000,000*l*. This figure was included in the total estimate of 65,000,000*l*. given on February 17. The original estimates of cost were revised on several occasions during the course of the war to cover the developments in the schemes rendered necessary by our increasing military requirements. Authority for this increased expenditure was regularly obtained from the Treasury. The last estimate of the cost of the explosive and chemical factories, submitted in March 1918, was approximately 27,000,000*l*.

Aerated Waters Industry in Scotland.

Mr. Macquisten asked the Minister of Labour in the House of Commons on March 12 if he is giving any consideration to the objections to the draft Order for a Trade Board lodged on behalf of the aërated waters industry in Scotland; can he state why a poster was issued by the Ministry, dated March 5, 1919, inviting nominations to a Trade Board; if he intends to insist upon establishing a Trade Board for the aërated waters industry notwithstanding the strong opposition of the industry in Scotland; and is he aware of the unanimous opinion in Scotland that there should be a separate Trade Board for Scotland as there must be for Ireland.

Syphilis Tests.

Mr. Frederick Green, on March 5, asked the President of the Local Government Board whether he is aware of the experience of Dr. Tenison Deane, an American physician, that the Wassermann and Noguchi tests for syphilis show positive reactions in persons recently vaccinated who have never contracted syphilis nor inherited it; and of the fact that Dr. Valentine Knaggs, L.R.C.P., M.R.C.S., subjected three tubes of calf vaccine lymph to the Wassermann test, when they were found to show a strong positive reaction; and whether he will arrange for some experiments of a like character to be carried out by his medical officials.

The reply was to the effect that the Board's Medical Department have no knowledge of these facts.

Cocoa Supplies.

Mr. McCurdy, for the Food Controller, stated in the House of Commons on March 10 that vouchers entitling Van Houten, Ltd., to purchase 500 tons of raw cocoa were recently issued to them by the Raw Cocoa Distribution Committee of the Ministry of Food. Subject to the agreement of the importers concerned to issue contracts in exchange for the vouchers, Messrs. Van Houten will obtain the raw cocoa in question at the prices ruling under the Raw Cocoa (Prices) Order, 1918. In this event the War Trade Department will be prepared to grant to Messrs. Van Houten licences to export the 500 tons of raw cocoa for use by them in their factories in Holland conditional on their returning to this country 95 per cent. of the resultant products. As it will be necessary for the company to pay the appropriate duty on the importation of the resultant products and in addition the freight both on the raw cocoa from this country to Holland and on the resultant products from Holland to this country, they will not be so favourably placed as British firms who obtain similar raw cocoa at the same prices, and it is in consequence not likely that competition will arise.

The Government's Trade Policy.

Sir Auckland Geddes, in the House of Commons on March 10, explained the Government policy in regard to imports and exports. The following are the chief points in his speech: In regard to imports all raw material required for our industries will be admitted free of restriction. Manufactured articles necessary as materials for our own manufactures will be admitted free. Where such articles are produced abroad by industries which it is essential to foster in this country they will be restricted. Manufactured articles will be subject to restriction when they are not essential for consumption in this country, or are produced by home industries which require to be shielded while re-establishing themselves. The restriction in such cases will not extend beyond September 1 next without further review of the whole situation. All goods coming from any part of the Empire will be free. In regard to exports Sir Auckland said we are trying to get Allied countries to allow our exports to a certain extent to flow in as a charge that can be arranged upon the indemnity they will receive. As regards non-blockaded countries, there will be no restrictions on exports except the following: (1) Goods required for naval and military purposes; (2) goods required for home consumption or home manufacture; (3) goods directly or indirectly benefiting by subsidy or by purchase by the State. For blockaded countries the same three exceptions will hold good. The maximum numbers possible of manufactured goods are to be transferred to the free list. Negotiations to that end are being carried on now. For the rest, the Government are trying to get the maximum number of goods moved into List C, which allows export under licence to any destination. Turning finally to the re-export trade, Sir Auckland Geddes gave an assurance that the policy of the Government is to do everything to get that trade going and to give it every facility, consistently with inter-Allied agreements.

Changing Over in Chemical Factories.

In the course of the debate, on March 5, on the Vote on Account of Supply, Sir Wm. Pearce said the sudden cessation of war found this country with an enormous supply of explosives and a number of factories manufacturing explosives. If the League of Nations is going to succeed and we are going to have reduced armaments, it is quite clear that this expenditure cannot be looked upon as a permanent asset for the production of those particular things. He did not think that the Minister would have very much trouble in proving that large factories like Gretna have paid for themselves by the large quantities of explosives which they have produced. It was established almost entirely for the production of cordite. Cordite is an absolute war necessity, and the quantity of cordite that Gretna has produced has been of enormous assistance to the Government. It is not easy to say what should be done with this factory. Gretna consists of a very large area of 9,000 acres, and about 6,000 of them are good arable land. There is housing for nearly 14,000 or 15,000 people, and there is a certain amount of chemical and explosive plant. If the necessities of the country prove as small as we all of us wish, it will be extremely difficult to adapt a big plant like that at Gretna to the production of about 10 per cent. of its output. That is one of the difficulties that the Government have to face and that any purchaser would have to face. The chemical and explosive plant is constructed on such an enormous scale that it is almost certain that it would have to be worked at 20 per cent. of its speed, which would present considerable difficulty. There are other things for which Gretna might be used which would be of great service to the country. The buildings and all the agricultural land might form the nucleus of a very large settlement for discharged soldiers and sailors. He knew a whole class of chemical manufacturers whose pre-war activities were altogether destroyed by the necessity of having to make chemicals for munitions of war.

Birth.

Russell.—At Johannesburg, on January 31, the wife of J. R. Russell, chemist and druggist, of a daughter.

Marriage.

Rawlins—Pye.—At Byrkley Street Wesleyan Chapel, Burton-on-Trent, on March 9, by the Rev. E. Wyman, George Arthur Rawlins to Mary Elizabeth Pye, pharmacist, elder daughter of the late Mr. Graig Pye, chemist, Burton.

Deaths.

Beeby.—At Booth Place, Falkirk, recently, Mr. John Cochrane Beeby, retired chemist. Mr. Beeby, who was at one time the proprietor of a Falkirk business formerly carried on by his uncle, retired some fifteen years ago.

Black.—At 62 Denmark Road, Manchester, on February 27, Mr. Robert Black, chemist and druggist, aged fifty-two.

Cocker.—At Craigydon, Llandudno, on March 2, of influenza, Mr. Lewis Alexander Cocker, Ph.C., aged forty-six. Mr. Cocker, who was a native of Ripon, had been in business in Llandudno for twenty years. He qualified as a Fellow of the Spectacle-makers' Company, and was enrolled as a freeman of the City of London. He was a good amateur violinist, and was one of the original members of the Llandudno Season Extension Committee. He leaves a widow and a son.

Corbet.—At Belfast, on March 8, Mr. William Corbet, R.D., President of the Dental Society of Ireland. Mr. Corbet was a well-known figure in the retail trade of Belfast for many years. He served his apprenticeship with S. Connor & Sons, chemists, Newry, and afterwards travelled for Mr. Samuel Gibson, wholesale druggist, Belfast. Eventually he set up for himself in Crumlin Road, where he established an extensive connection. When the Dental Society of Ireland was formed in 1913 (*C. & D.*, November 22, 1913, Supplement), Mr. Corbet was elected President, and was reappointed each succeeding year. He was unable to attend the annual meeting of the Society last January owing to illness, which had laid him aside for several months. Mr. Corbet was a very old member of the Chemists' and Druggists' Society of Ireland, and was highly esteemed throughout the trade. He is survived by a widow and three children. The funeral took place on March 11 at the City Cemetery, Belfast, and was largely attended by members of the drug-trade. The Dental Association of Ireland, which sent a wreath, was represented by Mr. F. T. Smith, J.P. (Vice-President), Mr. J. D. Carse (Hon. Secretary), Mr. J. Moffet (Hon. Treasurer), and Mr. F. Mitchell.

Mr. William Corbet.

Good.—At 11 Wilbraham Road, Chorlton-cum-Hardy, Manchester, on March 8, the wife of Mr. Arthur W. Good (representative of Southall Bros. & Barclay, Ltd., Birmingham).

Hamer.—At 17 Bridge Road, Blundellsands, Liverpool, on March 5, Mr. Enoch Thomas Hamer, chemist and druggist. Mr. Hamer, who qualified in 1897, was an accomplished and cultured pharmacist, and his loss is keenly felt in Liverpool. His last illness was complicated by the difficulty of obtaining qualified assistance (*C. & D.*, March 8, p. 48). He leaves a widow.

Hargreaves.—Recently, the wife of Mr. Joseph Hargreaves, chemist and druggist, Manor Pharmacy, Great Crosby, Liverpool.

Meek.—At Ballymoney, co. Antrim, on March 9, Mr. William Meek, Ph.C., manager to Baxter, Ltd., chemists, Main Street. Mr. Meek, who was a native of Linlithgow, qualified as a pharmaceutical chemist of Ireland in 1912. He was for a time with Mr. W. S. Taylor, Ph.C., Enniskillen, but while engaged there his health broke down, and he spent eight months in a sanatorium. He leaves a widow.

Nuttall.—At Dublin, recently, of influenza, Mr. D. S. Nuttall. Mr. Nuttall served his apprenticeship in pharmacy with Hartleys, chemists, Nelson, Lancs. He had just begun a course of study at Trinity College, Dublin, after release from the Army.

Pater.—At Broomhill, Sheffield, on March 8, of heart failure following influenza, Mr. Joseph Brewster Pater, chemist and druggist, aged fifty. Mr. Pater, who was the son of a Wesleyan minister, was born at Gateshead. He served his apprenticeship with the late Mr. John Green, J.P., Christchurch, and gained further experience with Davidson & Kay, Aberdeen, and Savage & Co., Brighton. He qualified in 1891, and five years later went into partnership with Mr. G. H. Dunhill, Fulwood Road, Broomhill, with whom he had been an assistant. On the retirement of Mr. Dunhill, Mr. Pater became the sole proprietor of the business. He was an untiring worker in the Sheffield Pharmaceutical and Chemical Society, and was elected its President in 1900, after having filled the office of Secretary for two years. He was also a member of the local Committee in connection with the visit of the British Pharmaceutical Conference in 1904. Mr. Pater was at one time a great walker; but indifferent health had of late curtailed this and his other activities. The funeral took place at Fulwood Church on March 12, the local Society being represented by Mr. H. Antcliffe (Treasurer) and other members.

Mr. J. B. Pater.

Smith.—At 24 Sceptre Street, Newcastle-on-Tyne, recently, of pneumonia following influenza, Mr. William John Smith, chemist and druggist, aged seventy. Mr. Smith served his apprenticeship at Blyth, and subsequently joined the staff of Taylor & Gibson, chemists, Bigg Market, Newcastle. He remained with that firm for many years, becoming their chief assistant in the laboratory. Mr. Smith eventually set up in business on his own account in Sceptre Street, where he continued for over twenty-five years. In business and in private life he was most conscientious, and of a kindly disposition. He was interested in the activities of the Beech Grove Congregational Church. He leaves a widow. The funeral took place at Elswick Cemetery on March 12.

Trenwith.—At the Victoria Infirmary, Glasgow, on February 27, Mr. Charles Cowley Trenwith, chemist and druggist.

Udale.—Recently, Mr. George William Udale, Ph.C. Mr. Udale passed the Major examination in 1896, and was subsequently dispenser at the London County Council Mental Hospital, Hanwell, for nearly twenty years. Last January, while suffering from a breakdown, he disappeared from home (*C. & D.*, February 8, p. 43). His body was eventually found in the Thames at Twickenham on March 6. The inquest resulted in an open verdict.

Died on Service.

Griffiths.—At Sheerness, on February 27, Lieutenant E. C. Griffiths, King's Royal Rifles. Lieutenant Griffiths, who was the son of Mr. J. E. Griffiths, chemist and druggist (a director of Hogarth & Co., Ltd., Richmond, Surrey), had been on service for over four years, nine months of which was spent as a prisoner of war in German hands. He had but recently recovered sufficiently to return to duty. Death was due to a fall caused by an attack of faintness. The funeral took place with military honours at East Sheen on March 5.

Mr. Arthur Henry Norman, chemist and druggist, Bury St. Edmunds, who died on October 14, left estate of the gross value of 13,064*l.* 13*s.* 7*d.*, of which 8,400*l.* 11*s.* is net personalty.

Cinnamon for Influenza.—An advertisement in the "Personal" column of "The Times" recommends cinnamon as a preventive of and cure for influenza. A correspondent of the "Daily Telegraph" recalls a "Lancet" article in which the remedy was thus referred to: "One good teaspoonful of ground cinnamon (purchased at the chemist's); mix this in a coffee-cup with a little cold milk into a paste (like mixing cocoa), then fill up with boiling milk, and, if desired, sweeten to taste. Take this morning, noon, and night, remaining in bed during the attack."

Trade Notes.

Eudermine Cream and Face-powder are made by the Eudermine Co., Ltd., 79 Coleman Street, London, E.C. 2.

Gelatin.—Mr. Albert E. Maiden, Southport, specialises in the sale of all kinds of gelatin. He invites post-card applications for samples and prices.

Jackel's Cream.—Jackel et Cie. (of Paris), Ltd., Sauchiehall Street, Glasgow, give an illustration of the package used for Jackel's cream for the hair.

Birks's Junket Powder, made by Edward Birks & Son, Crown Works, Harrow, is a good selling line for the spring and summer, and hence should be stocked now.

Allenburys' Goods.—Allen & Hanburys, Ltd., 37 Lombard Street, London, E.C. 3, give a list of articles upon which the profit has been increased from 20 to 25 per cent.

Nutresco, Ltd., Johannesburg, and 22 Westridge Road, Southampton, call attention to their series of food products. These include Bovesco, Carnesco, Maltesco, Vinesco, and Nutresco.

Moore's Modern Methods, Ltd., 12 St. Bride Street, London, E.C. 4, invite applications for advice in regard to book-keeping methods. The company claim that their system reduces clerical labour and decreases the working hours.

Rubber Goods.—The British Rubber Manufacturers, Ltd., are again able to supply rubber goods from stock. These include enemas, douche-bags, injection-bottles, air-cushions, and bathing-caps. The company's advertisement appears in this issue.

"The Purple Key."—This mark is now being used on a new series of labels of Ayrton, Saunders & Co., Ltd., Liverpool. The other series are the "Star," "Mortar," and "Anchor." A chemist in a particular district can have one of the series reserved for him.

"Little Movies" is the name given to a laxative by Mr. H. Francis, Oak Hall, Stock, Essex, and advertised in our last issue. The price of the article is protected under the scheme of the Proprietary Articles Trade Association. An offer is made of a showcard and free samples.

"Sanitas" Packages.—The demand for "Sanitas" has increased enormously owing to the influenza epidemic. This has caused increased difficulties in the supply of bottles. The "Sanitas" Co., Ltd., Limehouse, London, E. 14, in an advertisement in this issue, suggest that chemists may be able to sell the larger jars in place of bottles.

Influenza Vaccines.—Duncan, Flockhart & Co., Edinburgh, and 155-157 Farringdon Road, London, E.C. 1, are supplying the bacterial vaccine recommended for the treatment of influenza. The firm issue a leaflet giving full directions for use which chemists will find it advantageous to possess, so as to be able to answer inquiries from medical practitioners.

Wood-pulp Discs.—Dairy Sundries, Ltd., Imperial Works, Knotts Green, Leyton, London, E. 10, send us samples of the waxed wood-pulp discs and rings which they manufacture. These are used for sealing packages of malt extract, malt and oil, malted milk, face cream, pomades, and similar articles, and are used by some of the largest houses in the drug-trade. Points of interest about the discs and rings are that they are cheaper than cork and rubber, and being impervious to moisture do not cause rust or corrosion when used with metal caps. A wax of high melting-point is employed in the manufacture of the discs and rings, so that the article may be sealed with them even if taken direct from the heat steriliser. The discs and rings are put up in packages of 100's, 200's, or grosses.

"Blighty" Burgundy Mixture.—Since we referred to this horticultural preparation issued by the Mond Nickel Co., Ltd., 39 Victoria Street, London, S.W. 1, we have had an opportunity of examining a sample. "Blighty" Burgundy mixture is a pale blue powder, and merely requires stirring with water to make a spraying solution for use as a preventive of potato blight and other plant diseases. We find that the powder mixes readily with water and forms a liquid in which the precipitate is so fine that it is held in suspension long enough for all ordinary purposes. One pound of "Blighty" mixture with three gallons of water makes a 2 per cent. spraying solution. It requires 40 lb. of "Blighty" with 120 gallons of water to spray an acre of potatoes. The company issue an explanatory booklet which we recommend agricultural chemists to obtain, so that they will be able to advise customers as to the correct quantities to employ and the methods of using "Blighty."

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1917, p. 220.

(From "The Trade-marks Journal," February 12, 1919.)

"Calcium Brand Vitaminous Preparation with Calcium"; for medicinal chemicals (3). By A. Wander, Ltd., 45 Cowcross Street, London, E.C. 1. 386,635.

"Kerono" and "Fenox"; for medicinal chemicals (3). By United Chemists' Association, Ltd., London Road, Cheltenham. 386,927/8.

"Aabada Battery" on oval device including battery and pyramid; for electrical batteries (8 and 11). By Aabada Dry Batteries, Ltd., 61 St. James Street, London, S.W. 1. 386,781/2. (Associated.)

Device composed of three diamonds; for food substances (42). By Mitsubishi Goshi Kaisha, 149 Leadenhall Street, E.C. 3. 385,289.

"Yeatella"; for food substances (42). By Yeatman & Co., Ltd., 9 Denmark Street, London, E. 1. 386,882.

"Esma"; for food substances (42). By Gordon, Walker & Co., Ltd., Warple Way, Uxbridge Road, Acton Vale, W. 3. 386,925. (Associated.)

"Nescol"; for food substances (42). By W. Thornton, Heath House, Occupation Lane, Pudsey, Yorks. 387,067.

"Verbonia"; for goods (47) and for perfumery, etc. (48). By Vebo, Ltd., 2-6 Plough Road, Battersea, S.W. 11. 386,099/098. (Associated.)

"Breath of Isis"; for perfumery, etc. (48). By Lever Brothers, Ltd., Port Sunlight. 386,464. (Associated.)

"Cherub"; for perfumed soap (48). By G. W. Goodwin & Son, Ordsall Lane Soap Works, Manchester. 386,500. (Associated.)

(From "The Trade-marks Journal," February 19, 1919.)

"Walgay"; for chemicals (1). By R. Gay & Co., Ltd., Langthorne Works, Stratford Market, London, E. 15. 387,039.

"Black Flag," over picture of flag bearing letters "I.P." ("I.P." disclaimed); for insect powders (2). By Gilpin, Langdon & Co., Inc., 300 West Lombard Street, Baltimore, U.S.A. 386,282.

"Three Hands Brand," with device composed of three hands; for all goods (2 and 4). By United Kingdom Chemical Co., Ltd., Netherlee Works, Burnside Road, Catheart, Glasgow. 385,998/970.

"A G K" on diamond-shaped device; for gum arabic (4). By A. G. Kingston & Co., 5 Stamboul Street, Alexandria, Egypt. 385,726.

"A R K O S"; for optical goods (8) and for optical glass (15). By J. & R. Fleming, Ltd., 136 Clerkenwell Road, London, E.C. 1. 385,473/4 (associated).

"The Wear-at-Ease Sanitary Towel Protector" and signature ("Wear-at-Ease" disclaimed); for a sanitary towel protector (11). By Lena Andreae, 99 Trinity Road, Edinburgh. 386,264.

"The Triplex Safety Glass Co., Ltd." with picture of statue of spear thrower; for glass (15). By The Triplex Safety Glass Co., Ltd., 1 Albemarle Street, Piccadilly, London, W. 1. 385,608.

"Panroy"; for food substances (42). By The Milroy Chemical Co., Ltd., 127 Summerfield Street, Bridgeton, Glasgow. 386,405.

"El Hamara"; for cachous, etc. (42). By J. H. Jackson, Ltd. 28 Canal Street, Nottingham. 386,720.

"Athletine"; for food substances (42). By J. F. Renshaw & Co., Ltd., 27 Chatham Road, Battersea, S.W. 11. 387,043.

"Elaometh"; for all goods (46). By J. Hill, 49 Ranelagh Street, Liverpool. 385,958.

"Pyreco"; for toothpastes, etc. (48). By Goddon & Coke, 49 Lambs Conduit Street, London, W.C. 1. 386,316.

"Fleur Aimee" and "Baiser de Papillon"; for perfumery, etc. (48).

Information Department.

INFORMATION WANTED.

81/12. "Athlo" pottery-ware
79/70. "Kipeol"
77/57. "Rabasa" salts (Radium Bath Salts Co.)
78/43. "Pepsodent"
74/74. Gold embossing-machines for labels and toilet-boxes: makers
82/64. "Eldahsaw" trusses
81/23. Roy's surdisine cure for deafness
82/29. Poroplastic felt (source of supply)
81/23. "Tri-Thymol" capsules
84/71. Chondrus Chrispus gelatin, preferably in scale form, makers

INFORMATION SUPPLIED.

"Cutaneous" soap, 65/1
Cuttlefish, 76/7
Diabetic bread, 64/21
"Diabetol," 62/31
Iron jelloids (Swiss inquiry), 48/32
"Jellax," 17/66
"Kalos" brand liquorice, 73/12
Linseed oil, 271/12
"Liquifruta," 8/58
Liquid glue, 38/74
"Lubafax," 62/31
Luctin serum, 67/73
Packers' tar soap, 12/9
Palmolive soap, 26/3
Perfumery caskets, etc., 46/24
Perpinolettes, 252/30
Petol, 252/25 and 8/59
Tube-filling machines, 35/4
Tucker's asthma cure, 246/57 and 52/18
Vermorel's sprayers, 45/60

Observations and Reflections.

By Xrayser II.

An Organised Opposition Party

in the Pharmaceutical Council is our most crying need at present. Recent meetings of the Council have clearly shown that effective opposition is confined virtually to a minority of three to four in a total of twenty-one members. There are others who sympathise more or less with the minority, but at the push they shrink and become in effect mere slaves of the machine. Moreover, the action of the stalwarts themselves is too occasional and sporadic to achieve any very definite result; irritation and personal animosities do not make for progress; concerted and deliberate effort under competent leadership is what is needed if anything beyond a policy of pin-pricks is attempted, and unless something else is attempted the cause of progress will be lost. A new election is now close upon us, and an opportunity is thus afforded of attaining what is needed. I am not referring to any specific reforms. Much difference of opinion exists among us on that score, and until greater unanimity prevails, little can be done beyond breaking the bureaucratic crust, "heavy as frost and deep almost as life," that binds the Council. It is to this that our efforts should at the moment be chiefly directed, and if every elector would only resolve to vote in the coming election for men who pledge themselves to support the dauntless trio (no need to name them) who stand in declared opposition to the governing clique, and for nobody else, this end might be attained; we should arrive at Pisgah, if not at the Promised Land.

Finance

clearly is not the Council's strong point. The finances of the Local Associations Executive are causing many of its members to scratch their heads, and well they may. The President declares that the funds of the L.A.E. are part of the property and under the control of the Pharmaceutical Society; Mr. Sargeant says the L.A.E. has largely the control of its own finances, though responsible to the Council for the management of its funds (a nice distinction!), and between funds and finances it is not strange that Messrs. Skinner and Wolff find themselves very much in the dark. Nine months, says Mr. Wolff, have passed since he entered the Council, and he has not yet seen a statement of the Executive's accounts, and Mr. Skinner adds that the balance sheet they now have contains no details by which the accounts can be checked. Mr. Rowsell objects to such "carping" criticisms, and Mr. Parry complains that they imply something "shady," yet Mr. Parry himself has to ask whether the L.A.E. is an independent body or not. Blind leaders of the blind? At least they are running in blinkers; no wonder they shy at times.

The Official Explanation

of the 2,000*l.* loan from the War Auxiliary Benevolent Fund need cause nobody any regret for whatever strong language Mr. Wolff may have used on the subject. We are officially informed that in pressing for an explanation Mr. Hines gave an opportunity for dispelling what might have proved a "mischievous misunderstanding," and outside critics may surely be allowed to share any credit due to him for this. Some of them may perhaps, if inclined to be mischievous, take occasion to be so from the explanation now given. It amounts to this, the Council, having overdrawn its account at the bank, and being unable to borrow from the bank without security, temporarily availed itself of the sum required by transferring it from the W.A.B. Fund Account to its own General Fund Account, which apparently did not need security. The suggestion seems to have come from the bank itself, and we are left to suppose that the Council knew nothing of the matter until the Secretary reported it some days afterwards. One hardly knows which to admire most, the bank's caution, the Secretary's boldness, or the *naïveté* of the Council in supposing that a transaction like this would not excite remark. That our Society should be reduced to such straits, and should resent being questioned when such expedients have to be used, is lamentable. One thing at least the incident should make us insist upon, that a permanent Committee of the Council such as Mr. Skinner has proposed, to deal with matters promptly as they arise, should at once be formed. If the Society has to live from hand to mouth in this way it ought not for a single day to leave its affairs in any one pair of hands. "Arrangements" involving such large interests and such nice points of honour ought not to be entered into in such fashion as this. We have Mr. Parry's assurance that the Council is pledged not to borrow from this Fund again; that is well, but why was the pledge given if the borrowing criticised was so defensible as he makes out.

Neither Mr. Sargeant

nor the President has any reason to congratulate himself on the proposed vote of censure upon Mr. Wolff. Mr. Sargeant, by his violence and unfairness, disgusted even those members of the Council who were inclined to blame Mr. Wolff for his action, and the President, though the tone of the meeting eventually induced him to ask for the withdrawal of the motion, had previously, by ruling the Vice's monstrous addition to the motion in order, shown himself unable to hold the balance fairly in such a nice debate and done much to justify the harshest criticisms that have been passed upon his presidency of these meetings. Of the older members of the Council, Mr. Campkin showed to most advantage what can only be called a most regrettable wrangle; Mr. Guthrie's attitude was puzzling; he holds that the Council cannot set up a standard of taste for its members, but he sets up one of his own and accuses a fellow-member of a "grave lapse" from it. In the privacy of his own bosom this might be allowed, but surely it was inconsistent with what he had just said to avow it.

Mr. W. H. Saunders

does well in keeping the "Face-value" question prominently before us, and his declaration at Halifax that "Face-value" alone is no remedy for the evil condition into which the trade in patents has fallen is especially welcome. Unless it carries a reasonable profit, it will prove a delusion and a snare. The "Face-value" of a forbidding face is indeed a minus quantity, and it is to be regretted that the mere phrase has so often been insisted upon as offering a solution of our problem. A "Face-value" that makes it worth while to handle proprietaries is what we must fight for with all our power. A friend tells me privately that in some quarters I am suspected of luke-warmness in this matter. I cannot conceive why, for I have always been strongly in favour of everything which Mr. Saunders advocates. True, I have never regarded the trade in patents as

The Raison d'Etre of the Pharmacist,

and, frankly, I regret that circumstances have forced it upon us; but so it is, and, since it is so, it is due to ourselves and to our position as tradesmen that we should refuse to be made the mere tools of proprietors, or should accept starvation terms from them. My only quarrel with the Proprietary Articles Trade Association has been on the ground that it has not been bold enough in urging our rights as retailers, and I was among the first to welcome the more active measures of the "Face-value" propagandists. I am not sure that I do not go further than Mr. Saunders himself in opposition to the tyranny of the big advertisers of unremunerative proprietaries, for apparently his only hope is in concerted action, whereas I would not wait for this, but years before "Face-value" was mooted made an individual stand against low profits, and refused to stock goods that did not pay their own way. I must apologise for this personal explanation, but it is made entirely in support of the movement I am erroneously supposed to have regarded as of comparative unimportance.

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NON-POISONOUS
DISINFECTANTS
FLUIDS, POWDER, SOAPS & APPLIANCES
Should be stocked by all Chemists.
THE "SANITAS" CO., Ltd., LIMEHOUSE, LONDON, E. 14

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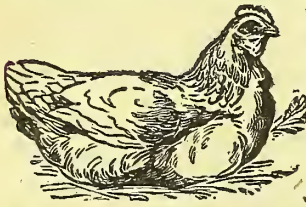
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Editorial Articles.

Apothecaries' Assistants.

The definite statement was made in the House of Commons this week that the Pharmaceutical Society is preparing a by-law for submission to the Privy Council for the purpose of admitting apothecaries' assistants to the Registers of Chemists and Druggists. This disposes of the many rumours that have reached us on the subject, and it prompts an interesting speculation as to how the Pharmaceutical Society will surmount the difficulties of the situation. The Poisons and Pharmacy Act, 1908, section 4 (*b*), gave the Pharmaceutical Society power to make by-laws

Providing for the registration, upon payment of the prescribed fee, as pharmaceutical chemists or chemists and druggists under the Pharmacy Acts, 1852 and 1868, without examination, of any persons holding Colonial diplomas or of qualified military dispensers or *certified assistants to apothecaries under the Apothecaries' Act, 1815, who produce evidence satisfactory to the Council of the Society that they are persons of sufficient skill and knowledge to be so registered.*

The clause was introduced into the Bill as it was passing through the House of Commons, on the understanding that it is permissive and not mandatory. We have it on the authority of Mr. E. White that the Society has had counsel's opinion on the meaning of the section, and that this confirms the view which was held by the Society from the beginning. It will be noted that the section expressly provides that registration is to be made without examination, and it is this particular requirement, we believe, that has occasioned the greatest difficulty in dealing with the matter. It was the view of the Council of the Pharmaceutical Society that its duty was to wait until some satisfactory evidence was placed before it that the persons who applied for registration had sufficient skill and knowledge to justify their inclusion on the Registers of Pharmaceutical Chemists and Chemists and Druggists. Now the combined effect of the various Pharmacy Acts is to give the right to a qualified chemist to carry on the "business of a chemist and druggist," only part of which is the dispensing of medicines. Apothecaries' assistants pass a simple test, and receive a certificate entitling them to act as assistants to apothecaries "in compounding or dispensing medicines." The Pharmacy Act, 1868, was the outcome of a desire to afford increased protection against the dangers of accidental poisoning. The sale of scheduled poisons was, in consequence, confined to registered persons. Dispensing of medicines was incidentally reserved to chemists for the reason that most prescriptions contain scheduled poisons. The suggestion is therefore that apothecaries' assistants with a knowledge of dispensing, which is undoubtedly inferior to that of a person who has passed the Qualifying examination, shall be placed upon the Register without any other further acquaintance with the business of a chemist and druggist. We claim that if this takes place the public will be placed in a dangerous position, and that the main protective object of the Pharmacy Act, 1868, will be nullified. The unfairness to those who have passed the severe test of the Qualifying examination of the Pharmaceutical Society is beyond question. It would have been a simpler matter, and have involved a comparatively trifling expenditure of money and energy, to have passed the Assistants' examination of the Apothecaries' Society in place of the Minor. We have outlined the position so that our readers can see the danger threatening pharmacy at the present time, and also so that they can judge of the great change in opinion which will have to take place before the Pharmaceutical Council can accept apothecaries' assistants as "persons of sufficient skill and

knowledge" to be registered as chemists. As part of a constructive policy, we suggest that the Society should obtain power to set up examinations for apothecaries' assistants so that they can be certified as fit persons to carry on those parts of the business of a chemist and druggist other than the dispensing of medicines. We would, however, place a time-limit upon the activities of the Apothecaries' Society, such as would lead to the suppression of the assistants' diploma "mill," otherwise the Pharmaceutical Society will be compelled to lower the standard of its examinations to the level of the apothecaries' assistants examination—which would be deplorable.

Methylated-spirit Drinking.

The tendency to panic legislation is one of those weaknesses against which as a nation we require from time to time to keep on our guard. At the present moment, when so much calls for renovating and reconstructing, we find ourselves in some risk of being hurried away into a drastic repression of the traffic in methylated spirit. Without any reference to the merits of whatever scheme of readjustment of the law is contemplated, we protest against any legislation being undertaken just now. Public opinion, which is as yet affected by the unstability caused by the war, has recently been further disturbed by sensational reports of the prevalence of the drinking of methylated spirit, especially among women. We do not question the authenticity of the reports or the desirability of finding a remedy for the evil, but the subject is one which requires and merits a more extended and dispassionate consideration than it is likely to get at the present time. It ought not to be relegated to overworked legislators and theoretical reformers in a hurry. A large part of the retail distribution of the only kind of methylated spirit accessible to drinkers is in the hands of retail chemists. What is known as industrial methylated spirit, a comparatively pure alcohol used in arts and manufactures, is subject to such close Revenue control for fiscal reasons that the possibility of its being obtained for use as a beverage may be left out of account. The other kind, the mineralised variety, which is obtainable from those who hold licences as methylated-spirit retailers, is undoubtedly the spirit the drinking of which is now so much complained of. Precautions are now taken to prevent its use as a beverage, and it is doubtful whether any more stringent measures, while they would in all probably seriously hamper legitimate trade, would be likely to repress this illicit traffic. The spirit before coming to the retailer from the maker has to be denatured by the addition to it of three-eighths of 1 per cent. of approved mineral naphtha or paraffin, which it is considered must make it unpotable by any person whose taste is not of the most depraved kind. A retailer of methylated spirit can only have the mineralised methylated spirit in his possession, so that one kind cannot be sold for the other by fraud or mistake; and he is guilty of an offence if the mineralised spirit in his possession is found to contain essential oil or other flavouring matter which would tend to make it potable. A person who is licensed to retail beer, spirits, wine, or sweets for consumption on his premises is forbidden by law to be a retailer of methylated spirit. The spirit may not be sold between the hours of ten on Saturday night and eight on the following Monday morning, and may not be sold at any time for use as a beverage. These are strong precautions against misuse, and it would be worthy of consideration whether the illicit drinking of methylated spirit could not be more effectively prevented without involving any interference with the legitimate trade of retailers if provision were made for a supply of such spirit as can be taken in due moderation without involving injury to the consumer or loss to the Revenue. With the present maze of restrictive emergency legislation limiting the usual supply, those who find themselves deprived of the drink which nature or habit makes them crave for may be expected to turn even to methylated spirit to satisfy their thirst. When this legislation dies its natural death, and the Immature Spirits (Restriction) Act, 1915, is drastically reconsidered we are hopeful that the methylated-spirit drinking craze will also cease to trouble us. In the meantime Parliament might well allow the subject to rest.

Canadian Chemicals.

On several occasions we have referred to the considerable strides that have been made in the chemical industry in Canada during the past two or three years, and further developments on an unprecedented scale are looked for in the course of the year. Practically unlimited supplies of alcohol are now available, and Canadian manufacturers are looking to this being made "tax-free," as the result of the recent endorsement by the Dominions Cabinet Committee of the recommendations of the Research Council. The amount of alcohol used in Canada prior to the war was only about a million gallons per annum, whereas two pulp-mills alone have promised to produce almost as much if the duty is abolished. It is estimated by the Chairman of the Advisory Council for Scientific and Industrial Research that industrial alcohol can be manufactured from waste sulphite liquors of Canadian pulp-mills at about 40 cents per gallon. It is believed that if a liberal interpretation is given of what is duty-free industrial alcohol, many so-called fine chemicals can be produced, and a considerable reduction in the price is looked for, should the desired legislation be secured. Among the products contemplated is the manufacture of caffeine, cocaine, morphine, chloral hydrate, ethyl bromide, nitrous ether, collodion, and many other fine chemicals which at the present time have to be imported in consequence largely of the very high duty which is imposed on alcohol for manufacturing purposes. There is a large demand for strychnine in Canada, and it is believed that it could all be made in the Dominion, but its successful manufacture may be more difficult than is anticipated, although raw material may be cheap. Canadian aspirin, which is now a familiar article on this market, for several years has been manufactured at the rate of 14,000 to 15,000 lb. per month, and has also been shipped to South Africa and Japan. Large supplies of toluol now being available, a company has been formed in Ontario to manufacture benzoate of soda and benzoic acid, also benzaldehyde, vanillin and coumarin. Naturally an export outlet is sought, as the Canadian demand is small. The manufacture of sal ammoniac commenced in the latter part of 1918 owing to the embargo placed on the export by Great Britain and the United States, and about 5,000 lb. per day is turned out, which is more than sufficient to supply the home demand. One of the great British chemical companies has just erected a plant to produce soda ash in Ontario. The plant has cost over $3,000,000, and altogether occupies 650 acres. It is anticipated that the output of soda ash will be 120 tons per day, as the deposits of limestone and salt are plentiful, and the manufacture of other alkali products may be entered upon later. Canada is a large consumer of soda ash, her imports in the fiscal year ended March 1916 being about 643,000 cwt., against 542,000 cwt. in 1915, of which by far the larger proportion was supplied by the United States. In fact, the United Kingdom enjoys but a small share of Canadian chemical imports. It is therefore possible that we shall have to look upon the Dominion as a more active competitor in chemicals, particularly the medicinal and synthetic products, but it is recognised that the principal competition which the Canadian industry has to meet is with United States firms.

German Poison-gas Factories.

A forecast of the Peace conditions which are to be imposed on the Germans states that no asphyxiating gas will be permitted to be used in future wars. It is difficult to see how this condition will be made effective, as the German poison-gas factories require chlorine, phosgene gas, etc., for the manufacture of ordinary chemical products. It was the adaptation of these products to war purposes that has disgraced Germany in the eyes of the civilised world.

The Retail Sale of Honey.

There appears to have been a remarkable falling-off in the public demand for honey since the year commenced, this being probably due to the increased sugar ration and the better supply of syrups and other sweetening matter. It is curious that this sudden collapse in the public demand has been accompanied by much larger imports of late, particularly from Australia and Cuba, and at the present time the market is glutted. Over 250*s.* per cwt. was paid for honey in public auction in October last, and such honey to-day is selling at from 80*s.* to 90*s.* per cwt. in Mincing Lane and Tooley Street, which would admit of a retailer selling it in reputed pound pots at, say, 1*s.* and 1*s.* 6*d.*, but it cannot be bought at anywhere near this figure in retail grocers' shops. Grocers like other traders advanced their prices as the market advanced, but they have only slightly reduced them since, although it will be seen that the price is only about one-third what it was in October last. The public is not disposed to pay 2*s.* to 2*s.* 6*d.* per lb., and as really good quality is obtainable at, say, 90*s.* to 95*s.* per cwt., a good profit is shown at 1*s.* 3*d.* per lb. The opportunity now presents itself for pharmacists to push the retail sale and offer a good quality at a reasonable price.

Commercial Travellers' Commission.

In the course of his judgment in a case in which a commercial traveller sought to recover commission on repeat orders, Mr. Justice Bailhache, in the King's Bench Division of the High Court, reviewed the question of commission due to commercial travellers. He said that where a man had a large connection in a particular trade, and undertook to solicit orders for an employer, and gave the employer the benefit of his connection, the law was that when the engagement was terminated commission was to be paid on all repeat orders received from the customers who were introduced by the agent or traveller. If that were not so, a man having a large connection in a particular trade might introduce the whole of that connection to his employer, and, if dismissed, find himself deprived of the whole connection. That would be manifestly unfair. In cases where it is clearly specified in the terms of engagement that commission should so continue to be paid there is no difficulty. Difficulty arose in cases where the traveller was employed in what was to him an entirely new business, in which he had no connection which he could introduce to his employers. In such a case he understood the law to be that unless there is something in the contract itself which clearly implies, if it does not clearly express, that commission is to be paid after the employment ceases, it should cease, both as regarded original and repeat orders, with the termination of the employment. But the trouble is that in a recent case of this kind Mr. Justice Peterson decided the other way—namely, that the agent is entitled to receive commission upon repeat orders which do not come in during the period of his employment, but after his employment ceases. Although that was not exactly Mr. Justice Bailhache's view, inasmuch as the practice was to follow the decisions of judges to some extent, he decided in the plaintiff's favour. His lordship added that, in view of divergent judicial views in this matter, the difficulty arising seemed to be interminable, and he advised some method of settlement, say in the form of an agreed small sum by way of compensation.

An Unsuccessful Operation.—A case was heard in the King's Bench Division of the High Court, last week, in which a solicitor unsuccessfully endeavoured to avoid payment of a surgeon's fees on the ground that the operation failed to give the results which the surgeon is alleged to have promised.

Research Grants.—The Advisory Council of the Committee of the Privy Council for Scientific and Industrial Research has issued a pamphlet containing notes on the conditions under which grants are made to individual research workers and students in training. The pamphlet, which costs 6*d.*, can be had from the Stationery Office.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Complaint against a Doctor.

The National Health Insurance Commission (England) issued, on March 7, the Report of the Inquiry Committee appointed under Part VI. of the National Health Insurance (Medical Benefit) Regulations (England), 1913, to inquire into the case of Albert Edward M. Dyas, L.R.C.P.I., L.R.C.S., 161 Brunswick Street, Chorlton-on-Medlock, Manchester. The inquiry was held at Manchester on December 11, 1918. The Committee was composed of Mr. J. Fischer Williams, Dr. J. Ratcliff-Gayland, and Dr. John Russell, who report that among the facts proved to their satisfaction or admitted are the failure to give an incapacity certificate as from the commencement of an illness, the sending of an account for 2*l.* 17*s.* 6*d.* to an insured person, and the furnishing of inaccurate records to the Manchester Insurance Committee. The Insurance Commissioners, being satisfied that the continuance of this practitioner on the medical list would be prejudicial to the medical service of the insured, have in exercise of the powers conferred on them by Section 15 (2) (*b*) of the National Insurance Act, 1911, and by the above-mentioned Regulations, decided to remove him from the medical list of the Manchester Insurance Committee. The removal will operate from March 14. Dr. Dyas is also ordered to pay the costs of the Manchester Insurance Committee, the costs to be taxed as between party and party.

Reports from Local Centres.

ENGLAND.

Devon.—At the meeting of the Insurance Committee, on March 3, the Joint Services Sub-Committee reported a complaint by a pharmacist against a medical practitioner for having given a repeat prescription to an insured person without attaching a copy of the original prescription. Upon being asked to make the necessary alteration, the medical practitioner advised the patient to go to another pharmacist. The Sub-Committee recommended that a letter be written to the practitioner, intimating that the principle involved by such a breach of the rules should be placed before the Insurance Committee. The Pharmaceutical Services Sub-Committee having taken evidence relative to a complaint made by the Chief Constable of Devon on behalf of insured persons against a pharmacist, passed a resolution that the Committee should make representations to the Commissioners on the subject.

Halifax.—At a recent meeting of the Finance and General Purposes Committee of the Halifax Insurance Committee, the Clerk reported that the chemists' accounts for the period January 1 to December 31, 1918, as certified by the Pricing Bureau, amounted to: Drug Fund, 3,260*l.* 11*s.* 11*d.*; Sanatorium Benefit Fund, 33*l.* 17*s.* 2*d.*; Temporary Residents' Fund, 4*l.* 17*s.* 2*d.*; total, 3,299*l.* 6*s.* 3*d.* It was resolved that the accounts be paid, less a deduction of 13*l.* for the administrative expenses of the Pharmaceutical Committee. The Panel Committee have been instructed to consider and report upon a letter from the local Pharmaceutical Committee desiring the revocation of the agreement respecting repeat mixtures, and asking the Committee to instruct chemists when it is desired to revert to the original formulas, seeing that glycerin and sugar are now more plentiful, and there is consequently no need for war emergency formulas.

Walsall.—At a recent meeting of the Insurance Committee, a complaint made by the Trades Council respecting the length of time patients had to wait for prescriptions to be made up at chemists' shops was considered. The Clerk reported that he wrote to the Trades Council pointing out that chemists had been working short-staffed for some time and under great pressure owing to the influenza epidemic, and asking for particulars of cases. The Clerk also read a letter from the local Pharmaceutical Committee pointing out the difficulties under which chemists were working, and stating that patients handed in, on or after closing hours, prescriptions which had been received from the doctor two or three days previously. Mr. E. M. Elliot thought such a complaint came with ill-grace from people who were clamouring for shorter hours while chemists were giving eleven hours per day without a break. No action was taken. A sequel to a complaint against a Walsall doctor was also heard, when it was reported that the Insurance Commissioners had decided to stop 15*l.* from the grant in respect of Walsall in consequence of this. A resolution that the 15*l.* should be charged against the doctor concerned was carried.

Associations' Winter Session.

Cardiff.—A general meeting of the Cardiff Pharmacists' Association was held at the Queen's Hotel on March 6, the President (Mr. A. S. Johnson) in the chair. The Local Associations Executive report on the Drug Tariff was discussed. Mr. Hagon did not think it possible to get the old system back again. Mr. Harden proposed that Clause D be discussed, and Mr. Eason pointed out that they had either to accept the present system, with advance in dispensing-fees, or a flat rate per script, with drugs at cost. Mr. Hagon said he favoured a flat rate per script, the only obstacle being that doctors might order such expensive drugs that it would be ruinous. Mr. Joseph said it is better to be paid for skill and to leave out establishment-charges. A proposal by Mr. Harden that drugs be charged at cost, with a flat rate of 6*d.* per script, was carried. Mr. Joseph proposed that payment at a lower rate for stock mixtures be abolished. A proposal by Mr. Hagon that hours of service be reduced was also carried. The President then referred to Mr. Hagon's resignation from the Pharmaceutical Council, and said he felt very sorry that Mr. Hagon was disinclined to allow his name to go forward again. It was the feeling of those present that Mr. Hagon should seek re-election as their candidate. Mr. Hagon said it was not right to stay too long on the Council, and that he ought to make room for younger men with new ideas. He also felt that he did not get the support from the Welsh Associations that he ought to have. Mr. Hagon read the report of a meeting of the South Wales and Monmouthshire Federation of Chemists' Associations, wherein the name of Mr. Joseph was mentioned as a suitable candidate, and said he was only too willing to resign in Mr. Joseph's favour. Mr. Joseph said the report was not an accurate one. It had been suggested that Wales should have two candidates, and his name was put forward as a second member. He (Mr. Joseph) stood last year solely because the Local Associations Federation was to be merged into the Council of the Society, and only members would be able to sit on the Executive. At the present time he was not inclined to allow his name to go forward, and he intended nominating Mr. Hagon as the Welsh candidate. Mr. Benson Harries proposed that a letter be sent to every Association asking support for Mr. Hagon, who, in reply, said he was willing to withdraw his resignation if he had the support of all the Welsh Associations.—Mr. Joseph said that having discussed the question of dispensing with Dr. Vacheil, he thought that if facilities were given by the chemists for dispensing doctors would be willing to leave it to them. He suggested that a rota be formed.

Ealing.—A meeting of the Ealing Pharmacists' Association was held on March 4, Mr. S. McKee (President) in the chair. It was decided to write to the Middlesex Insurance Committee suggesting that the balance of money between the cost of medicines and supplies per head (1*s.* 2*d.*) and the Drug Fund allowance (1*s.* 6*d.*) should be allotted to the chemists at the close of the financial year, in proportion to the amount of their accounts. Insurance dispensing on early-closing day and the methods of the local Infants' Clinic were amongst the questions dealt with in the general discussion.

Hull.—The monthly meeting of the Hull Pharmacists' Association was held on March 11, Mr. A. G. Snowden in the chair. Mr. Exleby, Mr. Cottingham, and Mr. Allen (Clarke & Co., Beverley Road) were admitted to membership. Mr. Snowden gave *A Talk on Pharmacy.* He said his first impression on going to business was the limited sphere of the pharmacist. They must prevent, if possible, the public from going to stores. Penny sales must be discontinued as being unworthy of their profession. With regard to whether their contributions should go to the War Auxiliary Benevolent Fund or to the Benevolent Fund of the Pharmaceutical Society, he was of opinion that they should give a prior claim to their own craft. Eventually 63*l.* was subscribed. Mr. Sellé said the position of dispenser to the Sculcoates Board of Guardians had been given to the daughter of a former chairman of the Board. She possessed only an Apothecaries' Hall qualification. It was resolved to protest against the appointment.

London (N.).—At a meeting held on March 4 at the Progressive Pharmacy Club, Mr. J. C. Carter in the chair, an address on *A Year's Work in the Presidency* was delivered by Mr. W. L. Currie, President of the Pharmaceutical Society. Mr. Currie said there had been many aspersions cast on the Council, but he was bound to say that, in his opinion, the present one was one of the very best with which he had met at Bloomsbury. During the last twelve months a very large amount of work had been accomplished for the welfare of the craft. He proceeded to deal with the various questions which had arisen, instancing the War Auxiliary Benevolent Fund. The difficulties over the war emergency formulas were due to the fact that the medical profession never consulted the Society save in a perfunctory manner. There should be direct representation of pharmacy on the Pharmacopœia, and direct responsibility. He referred to the Army and Navy Services, saying that in regard to the former, though we had made an impression, there was much to do before we had an adequate status for the work involved. Further steps were being taken. On the question of disabled soldiers' and sailors' reinstatement he outlined the Pharmaceutical Society's proposals. He also explained the new by-laws, indicating that they embodied a principle for which he had been fighting for twenty-five years. Dealing with the interrupted training, he called attention to the reports of the education representatives who had recently returned from France and Italy. He also advocated a return to the divisional-secretary method of organisation in England. Finally he urged that it was better to hasten slowly in the problems of reconstruction. In the discussion which followed Messrs. Skinner, Carter, Fairweather, Wolff, Milner, and Goode took part. A hearty vote of thanks was accorded.

Norwich.—The annual meeting of the East Anglia Federation of Pharmaceutical Associations was held at Norwich on March 6. The retiring Chairman (Mr. J. F. Collin, Norwich) presided, and the Treasurer (Mr. J. W. Bodger, Peterborough) presented the financial statement. A balance of about 10*l.* would remain when all liabilities had been met. The amount collected for the Benevolent Fund was 6*l.* 8*s.* 10*d.* The report was adopted. Mr. Collin said that during the year matters of considerable interest to pharmacists had been under discussion. Veterinary risks had been tackled by the Federation, and personally he ventured to think that really useful work had been done. He believed some of their members differed from him, but the Federation had forced the Chemists' Defence Association to move in the matter. Twice had their Chairman attended their meetings, and they had his assurance that an inclusive rate was to be introduced directly they could collect data sufficient to justify them in fixing the premium. In his opinion that was a very satisfactory result. He wished to impress upon the members the necessity for keeping the Federation alive and active. It was of the greatest importance for their Associations to be banded together and ready to take up and deal with any emergency. The war had taught them one great lesson, and that was the advantage of being prepared. With the Federation in existence he maintained that they were prepared, and he urged the members not to let their interest drop. The following officers were elected: *President*, Mr. Smalley (Ipswich); *Secretary*, Mr. Wiggin. Mr. M. Parry (Liverpool) gave an address on pharmacy as affected by the war, and also made a strong appeal for assistance to the fund being raised to help the widows and orphans of chemists and their assistants fallen in the war, to assist the maimed men, and to help students to qualify. The matter was left in the hands of the representatives of the local Associations.

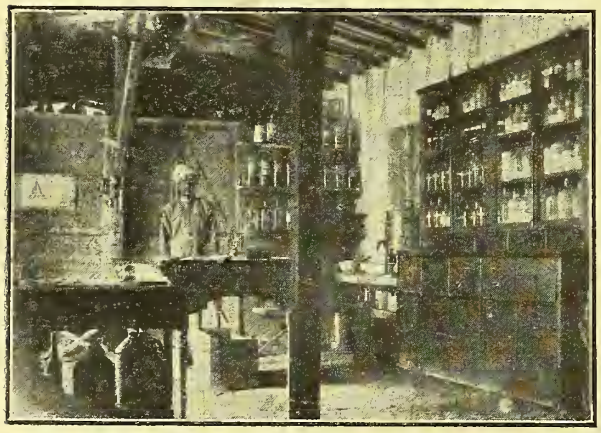
Sheffield.—A meeting of the Sheffield Pharmaceutical and Chemical Society was held on March 5, Mr. A. H. Culverhouse presiding. It was decided to invite the apprentices to form a section for affiliation to the Society. A letter was received from the Secretary of the Child Welfare Committee (Dr. Scurfield) inviting a pharmacist to a seat upon the Committee. It was decided that a chemist should have a seat upon the local Venereal Disease Committee, and that the Pharmaceutical Society be informed. A strong protest is to be made to the Chamber of Commerce, the various railway companies, and the Insurance Committee, on the serious position that chemists are placed in owing to the difficulty in securing delivery of drugs. The scheme of organisation was presented, and the meeting expressed its dissatisfaction at the report. The Secretary was instructed to say the Society regret that no provision has been made for the reinstatement of Divisional Secretaries throughout the country. Messrs. Antcliffe and Culverhouse were elected as representatives to attend the Conference in April. It was considered there are many difficulties in the way of establishing each local Society as a branch of the Pharmaceutical Society, and that the Pharmaceutical Committee, not being necessarily composed of pharmacists only, cannot feasibly be included as a section of the local Society.

Society of Public Analysts.—A meeting was held at Burlington House, London, W., on March 5, Dr. Samuel Rideal (President) in the chair. A paper by Major S.

Index Folio 255

Elliott and Captain J. Dalton on a *Method for the Determination of Small Quantities of Acetone, Alcohol, and Benzene in the Air* was read. The authors stated that a measured quantity of the air is drawn through suitable apparatus, the vapours being absorbed simultaneously as follows: The acetone in alkaline iodine solution and the excess of iodine titrated with thiosulphate; the alcohol in dilute chromic acid, and after oxidation to acetic acid, the excess of chromic acid is titrated with iodine; the benzene in a mixture of concentrated sulphuric acid and fuming nitric acid, converted into dinitrobenzene, and after extraction with ether, reduced by a known excess of stannous chloride and the excess of the last reagent titrated with iodine. A paper by Mr. George Stubbs and Mr. A. More described an *Approximate Method of Analysis of Sausages and Meat Paste.* The determination of moisture, fat, proteins, and ash, is carried out in the usual manner, and the proportion of carbohydrates taken by difference. The estimation of lean meat is based on the absence of carbohydrates in meat and the amount of proteins in the cereal products used as fillers. In another paper dealing with the *Analysis of Sausages, Meat Pastes and Army Rations,* by Mr. A. W. Stokes, the author stated that while the Food Control authorities limited the percentage of meat in sausages sold at a given price they did not limit the quantities of bread, water, and fat. The desirability of so doing was shown by a particular sample which contained about equal parts of added water, bread, fat, and meat. Since meat contains 10 per cent. of water and bread 40 per cent., no added water should be allowed. In the United States the use of bread in sausages is prohibited, and this prohibition might with advantage be enforced in England.

Stoke-on-Trent.—A meeting of the North Staffs Chemists' Association was held on March 8 to consider the reports of the Organisation Committee and of the Local Associations Executive. Mr. J. Dale (Vice-President) occupied the chair. All present were in favour of territorial representation. Mr. Edmund Jones (Hanley) said that some years ago he had worked out a scheme on a population basis, which had been sent to Bloomsbury Square and was no doubt still available. Mr. Nuttall (Newcastle) asked, with regard to the Western area comprising Stafford, Shropshire, and Wales, whether it would not be better further to subdivide the area. Mr. Bloor (Longton) pointed out that even in Wales the interests of the chemists in the North are very different from those of the southern chemists, and he proposed that a system of territorial representation be adopted as a trial for the election of the Local Associations Executive. Mr. Dale then proposed that Mr. Edmund Jones be elected as delegate for the coming Local Associations Conference. This was approved. The new Tariff for 1920 was discussed and, except for certain recommendations to headquarters, agreed to.



A Military Hospital Dispensary at Baghdad.

Sergeant O. B. Duckett, R.A.M.C., sends the above picture of the dispensary in which he is at present engaged. The situation of the hospital is just outside Baghdad, and the huts are temporary brick buildings roofed with iron and "mud." The fixtures in the dispensary were left behind by the Turks in a building which was previously occupied by the hospital within the city. On the left of the photograph is a chart recording the maximum temperatures (which fortunately in 1918 did not exceed 117°), and the thermometer from which the readings were taken. On the top of the fixtures are a number of mortars and various other apparatus, also left behind by the Turks.

Relaxation of Export and Import Prohibitions.

The following alterations in the existing prohibitions of export have been made by the Board of Trade since our last published list (*C. & D.*, March 8, p. 64):

Headings Transferred from One List to Another.

From "A" to "C" list: Chestnut extract, liquid; invert sugar; quebracho extract and extracts containing quebracho.

Headings Altered.

Delete.	*Substitute.*
(A) Spirits, potable, of a strength less than 43 deg. above proof, except gin, brandy, and liqueurs.	(A) Whisky. (C) Spirits, potable, not otherwise prohibited.
(A) Sugar, cane and beet, and articles, mixtures, and preparations containing sugar, cane or beet.	(A) Sugar, cane and beet. (A) Confectionery manufactured wholly or partly of sugar. (C) Articles, mixtures, and preparations containing sugar not otherwise prohibited.

Exports without Licence.

The following goods may now be exported to all non-enemy destinations, including Switzerland, without application to the War Trade Department and without the production of the certificates from Import Associations, etc., which are usually required in respect of exports to neutral countries in Europe: Nitrate of silver; wines of all kinds; Hunter's Gout and Rheumatic Powder; Pazo Ointment.

Increased Import and Export Facilities.

Information has been received from the War Trade Department that, subject to the production of the usual guarantees against re-export, licences are now being granted freely for the export of the following goods: To Denmark, paraffin wax, resin, castor oil, starches (other than potato-starch).

A Board of Trade notice states that general licences have now been issued to the Customs which, together with the general licences already in existence, will exempt all raw materials from the operation of the prohibitions of import. The following are among the raw materials which have from time to time been under prohibition and are now free: Antimony ore, diatomite or infusorial earth, gum copal, gum kauri, soya beans, sugar-canes, and tallow (unrefined). Any inquiry arising out of a doubt whether an article is to be regarded as a raw material or a semi-manufactured article should be addressed to the Department of Import Restrictions, 22 Carlisle Place, S.W.

Quicker Facilities for Exports.

The Department of Overseas Trade have issued a notice, in the course of which it is stated that: "In order further to assist exporters to recover their trade in goods of which the export is or has been controlled, and generally to ensure that no openings for trade are lost to British exporters owing to ignorance of existing export facilities, the Department of Overseas Trade in concert with the War Trade Department has made arrangements for bringing to the notice of exporters, through the medium of the Press, information regarding changes affecting control over exports . . . It is understood that, owing to the necessary formalities and consequent delay in connection with the obtaining of export licences, exporters find themselves at a disadvantage when dealing with orders requiring immediate acceptance. The Department will therefore, on request, undertake to ascertain from the War Trade Department, and reply by telegram or telephone at the earliest possible moment, whether licences will or will not be granted for such orders. In the event of an applicant being promised a licence, he will be enabled to deal with the order straight away, with the knowledge that upon application being made formally to the War Trade Department the licence will be granted. Inquiries should be by telegram rather than by telephone, and should be addressed to "Orders, c/o Advantage, Stock, London." They should give, in addition to the name and postal or telegraphic address of the applicant, the quantity, value, and description of the goods comprised in the order, and the name and address of the ultimate consignee if the goods are destined for a neutral country. In the case of orders from Allied or British territory or from territory in the occupation of troops of the Associated Governments the consignee need not be stated. A reply of twenty-four words (1s. 6*d.*) must also be prepaid.

Trade Report.

42 Cannon Street, E.C. 4, March 13, 3 p.m.

BUSINESS in chemicals and drugs continues to remain of a hand-to-mouth character, there being practically no inducement to act otherwise in the present transitional period. Prices of many of the leading pharmaceutical chemicals still tend downwards, this being due to the anxiety of dealers to realise stocks, and a still further cut has been made in the values of aspirin, salicylic acid, benzoates, amidopyrin, chloral hydrate, formaldehyde, paraldehyde, and potash sulpho-guaiacolate. Bromides are regarded as firmer. English camphor flowers are 6*d.* per lb. higher, and Japanese slab camphor is very scarce and price nominal. Cream of tartar continues unsettled at a wide range of values. Other changes include a decline in cumin and canary seed; caraway is offered once more. Druggists' cinchona-bark at auction realised higher prices. Shellac at auction was lower. New Lofoten cod-liver oil is tentatively offered. Gentian and liquorice-root tend lower; calumba is cheaper. Menthol, oil of Japan mint, star-anise oils are all quiet. Export business is improving, as licences are being freely granted, but freight is difficult to secure and there is a congestion of goods at the wharves and docks awaiting shipment.

Higher	Firmer	Easier	Lower
Camphor (Eng. flowers)	Bromides	Anise oil, star	Amidopyrin
Cinchona (pharmaceutical)	Ipecacuanha	Benzoic acid	Areca
Peppermint oil (Amer.)	Mint oil (Jap.)	Cassia lignea	Calumba
		Chloral hydrate	Canary-seed
		Copper sulphate	Carbolic acid
		Kola	Citronella oil (Cey.)
		Phenol-phthalein	Cloves
		Salicylic acid	Cream of tartar
		Senega	Cumin-seed
		Soda benzoate	Formaldyehde
			Glucose
			Honey
			Nux vomica (c.i.f.)
			Orange-peel
			Pot. sulpho-guaiacolate
			Shellac
			Thymol
			Turmeric
			Vanillin
			Wood oil (Ch.)

Cablegram.

NEW YORK, March 13.—Business in drugs is fair. Peppermint oil in tins has advanced to $8.50. Balsam peru is lower at $3.40, likewise Canada balsam at $8.00 per Amer. gal. Copaiba is also cheaper at 72½c. for Central American, and Oregon fir balsam has been reduced to $1.50 per Amer. gal.

AGAR-AGAR continues slow of sale, with No. 1 Kobe strip offering at 2*s.* 3*d.* on the spot. The exports from Japan during November 1918 amounted to 56,663 kin, valued at 69,120 yen. During the eleven months ended November 30 they were as follows:

	1916	1917	1918
Kin	2,670,752	2,025,366	2,582,706
Yen	2,342,850	1,877,956	2,896,978

The destinations were as follows:

To	1916 Kin	1917 Kin	1918 Kin
China	460,100	691,077	178,120
Hong-Kong ...	329,919	271,808	114,842
Straits Settlements	120,409	113,195	70,161
Dutch Indies ...	388,590	235,315	263,681
Asiatic Russia ...	152,396	877	605
Great Britain ...	313,211	170,782	1,578,456
France	275,289	93,259	28,370
United States ...	420,967	257,454	145,086
Other Countries ...	209,851	191,599	203,385
	2,670,752	2,025,366	2,532,703

AMIDOPYRIN is lower, with dealers offering at from 67*s.* to 70*s.* per lb., as to seller.

ANISE OIL, STAR.—"Red Ship" brand, which was selling last week at from 5*s.* to 4*s.* 10½*d.*, has declined to 4*s.* 7½*d.* spot, market being unsettled.

ARSENIC.—The market remains unsettled, with a weak undertone, although wide prices are reported near, and rather under 50*l.* per ton for white powder. For retail lots, however, considerably more is asked. Cost of production cannot be compared with what it was in pre-war times, but the outlet, of course, has fallen off considerably, and the fall in prices must be expected to become accentuated. Where arsenic is handled as a by-product cost of production is comparatively small, but it is a question how far needs can be supplied by such production.

ASPIRIN is again cheaper, dealers offering at 7*s.* 6*d.* to 8*s.*, and to arrive from the U.S.A. at 6*s.* per lb. c.i.f.

BENZOATES are easier, benzoic acid ex toluol offering at from 10*s.* 6*d.* to 11*s.*, and benzoate of soda at from 10*s.* 6*d.* to 11*s.* also.

BROMIDES are firmer in dealers' hands, with potash crystals offering at 3*s.* per lb. on the spot; ammon. is quoted 3*s.* 3*d.* (2*s.* 7*d.* c.i.f. to arrive), and sodium at 3*s.* (2*s.* 4*d.* c.i.f. to arrive).

BUCHU.—The exports from the Union of South Africa during October 1918 were *nil*, compared with 2,616 lb. (458*l.*) during October 1917. From January to October 1918 the shipments were 89,675 lb. (16,948*l.*), compared with 124,110 lb. (20,154*l.*) during the corresponding period of 1917.

CALCIUM ACID PHOSPHATE is offered for prompt delivery at the lower rate of 110*l.* per ton.

CAMPHOR (REFINED).—English flowers have advanced by 6*d.* per lb. to 8*s.* 6*d.*; tablets are quoted at from 8*s.* 9*d.* to 9*s.* Japanese refined slabs are firm and scarce at 9*s.* per lb., which has been paid.

CANARY-SEED is lower at 250*s.* per quarter for ordinary Morocco.

CARAWAY-SEED.—Dutch is now being offered at 140*s.* per cwt. f.o.b. Holland.

CARBOLIC ACID continues very weak, with offerings from second-hands at 6½*d.* per lb. for 39° to 40° C. ice crystals in drums.

CASSIA LIGNEA is easier, with sellers of whole selected and broken at 87*s.* 6*d.* per cwt.

CHILLIES.—A Mombasa market report, dated December 31, states that about 50 tons were shipped to the U.S.A.; prices are Rs. 7.25 to Rs. 7.50 per frasila; stocks in Mombasa about 70 tons.

CHLORAL HYDRATE is easier, dealers offering duty-paid crystals at from 7*s.* 6*d.* to 7*s.* 9*d.*, and at 5*s.* on c.i.f. terms (in bond).

CINCHONA.—At the London auction on Tuesday 515 packages druggists' offered, and rather more than half sold at full to higher rates. Of East Indian, 25 bales offered and 22 sold, comprising rather dusty Succirubra chips at 2*s.* 0¾*d.*, ditto root and chips, 1*s.* 9*d.* Of Java, 314 bales and 176 cases offered, of which 131 bales and 128 cases sold, comprising Succirubra hybrid chips, 2*s.* 5¾*d.*; bright root chips, 2*s.* 5⅜*d.*; chips and shavings, 2*s.* 5¼*d.*; thin bright quill, 2*s.* 2¾*d.* to 2*s.* 2*d.*; hybrid root and chips, 2*s.* 2¼*d.*; part silvery mixed short quill, 2*s.*; dusty root and stump chips, 1*s.* 7½*d.* to 1*s.* 9*d.*; root and stump, 1*s.* 2*d.* to 1*s.* 3*d.*; and Robusta stem chips, 1*s.* to 1*s.* 1¾*d.* per lb. In the drug auction 287 bales of South American bark were bought in, the bulk comprising good bold thick flat Cartagena, for which 1*s.* 9*d.* is wanted, at which business has been done privately. For good bold red thick bark 4*s.* is asked, and for good long thin Guayaquil quill bark 2*s.* is wanted. The exports from Java from January to October 1917, compared with the same period of 1918, were as follows:

To	1917 Kilos.	1918 Kilos.
Netherlands	725.000	—
Great Britain	417.000	572,000
U S.A.	513,000	1,063,000
Singapore	50,000	107,000
Japan	21,000	123,000
	1,726,000	1,865,000

CITRONELLA OIL.—Ceylon to arrive is offered at 2*s.* 3*d.* per lb. c.i.f., the spot value being 3*s.* to 3*s.* 3*d.* Java in drums is quoted at 5*s.*

CLOVE OIL is selling at from 8*s.* 6*d.* to 9*s.* per lb. from dealers' hands.

CLOVES are quiet, with sellers of fair Zanzibar on the spot at 10*d.* and April-May shipment at 8½*d.* c.i.f.

Coca-leaves.—The exports from Java from January to September 1917, compared with the same period of 1918, were as follows:

To	1917 Kilos.	1918 Kilos.
Netherlands	9,852	—
Great Britain	4,105	—
U.S.A.	60,051	245,870
Japan	6,423	185,380
	80,431	431,250

Cod-liver Oil.—The official report regarding the Lofoten fishing gives the following figures up to March 1:

	1917	1918	1919
Catch of cod (millions)	3·	1·2	2·6
Yield of c.l.o. (hect.)	6,053	1,275	3,770
Liver for "raw" oils (hect.) ...	1,420	194	916

Reports indicate that the liver continues to be very fat, so that the oil will be of superior quality this season. Prices for new Lofoten medicinal oil do not yet appear to have been settled, but one agent quotes 420*s.* per barrel c.i.f. for April-May shipment, without engagement. The export prohibition from Norway has not yet been removed, but it is not expected to be long deferred.

Copper Sulphate has remained idle, merchants being apparently apprehensive of further reduction in price, while demands from Allied countries are kept in abeyance for the present. The rally in metallic copper has had no effect on the market, and quotations are chiefly nominal at about 48*l.* per ton f.o.b. Liverpool.

Cotton-seed Oil.—The position is still tight, as indicated by the holding up of prices at the very high level of 60*l.* for crude, naked, while American refined commands a big premium at 95*l.* American shipments have improved, but there are big gaps to be filled. Crushers' operations cannot be very much increased until a greater tonnage of cotton-seed comes along. During the last two months the total imports of the seed were 103,976 tons, against 59,816 tons for the same period in 1918. The shipments look like continuing disappointing for some time yet, while freightage from India is difficult.

Coumarin to arrive is quoted at 50*s.* per lb., and spot is offered at 82*s.* 6*d.* In the drug auction 25 boxes were limited at 82*s.* 6*d.* per lb.

Cumin-seed is lower at 42*s.* 6*d.* to 47*s.* 6*d.* per cwt. for ordinary to good sifted Morocco.

Eucalyptus Oil is in steady demand at from 3*s.* 1½*d.* to 3*s.* 2*d.* per lb. for 70 to 75 per cent. oil.

Farina is steady, with spot sales of No. 1 Japanese at 35*s.*; afloat has been sold at 33*s.*, and March-April is quoted at 32*s.* c.i.f.; sweet is offered at 33*s.*

Formaldehyde is offered by importers at a reduction of 10*s.* per cwt., 40-per-cent. being quoted at 140*s.* and to arrive at 130*s.* c.i.f.

Glucose is lower, American liquid offering at 50*s.* per cwt., and end of March delivery at 47*s.* 6*d.* spot.

Guaiacol Carbonate can be had at 57*s.* 6*d.* per lb. on spot.

Hexamine is quoted at from 5*s.* 6*d.* to 6*s.* on the spot, and 6*s.* c.i.f. to come forward.

Hydroquinone is offered at from 12*s.* 3*d.* to 12*s.* 6*d.* as to seller.

Lanoline.—B.P. anhydrous is quoted at 1*s.* 10*d.*, and hydrous at 1*s.* 6*d.* on spot.

Linseed Oil.—At the first big official reduction made in the price to 58*l.*, as already stated in our previous issue, there is no important demand, consumers simply waiting for a further fall before filling their needs in excess of urgent contracts. The imports returns of raw material for the last two months are showing that a substantial improvement has already taken place. The total was 602,871 tons, comparing with only 149,788 tons in the same period last year. These figures clearly indicate that there is an abundant supply of seed and a consequent constant increase in crushers' output of oil.

Liquorice-juice.—For pure Spanish 290*s.* per cwt. is asked on spot.

Liquorice-root.—Good cut decorticated is quoted at 170*s.* and natural cut at 85*s.* per cwt.

Menthol has been steady but quiet, with spot sellers of Kobayashi-Suzuki at 21*s.* 6*d.*

Milk-sugar is very irregular, with American powdered available at 1*s.* 9*d.* per lb.

Mint Oil is slightly firmer compared with last week, spot sales of Kobayashi-Suzuki having been made up to 5*s.* 6*d.*; on Wednesday sales were made at 5*s.* 4½*d.*

Paraform is offered at from 7*s.* to 7*s.* 6*d.* per lb., as to quantity.

Paraldehyde is about 6*d.* per lb. cheaper at from 5*s.* to 5*s.* 6*d.* on the spot.

Peppermint Oil.—Firm offers appear to be unobtainable from the U.S.A. at the moment owing to pretensions of sellers, whose ideas of price vary considerably, and $8.50 has been tentatively named. Some spot (London) sales have been made at from 32*s.* to 33*s.* per lb., but these cannot be repeated.

Phenacetin has sellers at from 10*s.* to 11*s.* per lb. on the spot.

Phenazone is about steady at from 54*s.* to 55*s.* per lb.

Phenolphthalein is cheaper, dealers offering at 25*s.* 6*d.* to 27*s.* per lb.

Potash Iodide.—The exports from Japan during November 1918 amounted to 19,955 kin, valued at 125,660 yen. During the eleven months ended November 30 the shipments were as follows:

	1916	1917	1918
Kin	151,845	145,078	171,358
Yen	1,093,692	912,929	1,062,009

Of *crude iodine* 3,056 kin, valued at 26,118 yen, were exported during November, and the exports for the eleven months ended November 30 were:

	1916	1917	1918
Kin	3,044	40,613	55,999
Yen	17,096	291,269	360,638

Potash Sulpho-guaiacolate can be had at 40*s.* per lb., which is a considerable reduction on the previous price.

Resorcin is offered at 27*s.* per lb. on the spot.

Quinine.—The exports of quinine from January to October 1917, compared with the same period of 1918, were as follows:

To	1917 Kilos.	1918 Kilos.
Netherlands	2,713	—
Great Britain	21,516	41,113
Europe	1,812	5,000
U.S.A.	11,328	32,219
British India	10,900	51,141
Singapore	5,276	22,939
China	11,551	9,197
Phillipines	602	4,872
Japan	19,252	22,894
Australia	2,495	3,375
Other countries	8 773	9,860
	96,018	205,610

Salicylates.—Salicylic acid is easier, dealers offering B.P. powder at from 2*s.* to 2*s.* 2*d.* per lb., as to quantity. Soda salicylate is unchanged at 3*s.* 6*d.* for powder.

Sandalwood Oil.—In further reference to last week's paragraph, we are informed by the consignees of the Mysore Government oil that there has been no reduction in the official price, which remains at 50*s.* per lb. net ex warehouse, the only authorised concession being a reduction clause on contracts.

Senega is easier, with spot sellers at 4*s.* 10½*d.* per lb. net.

Shellac.—At auction held on Tuesday TN and AC sold at a substantial decline; 392 cases offered and 254 sold, partly without reserve, including fine second Orange, slightly matted, at from 267*s.* 6*d.* to 270*s.*, good bright free TN 215*s.* to 217*s.* 6*d.*; good TN, free to slightly matter, 210*s.* to 212*s.* 6*d.*; slightly matted to matted TN, 190*s.* to 192*s.* 6*d.*; fair livery TN, 120*s.* to 130*s.*; ordinary livery TN, 110*s.*; AC Garnet, slightly cakey to blocky, 250*s.* to 220*s.*

Soya Oil is again on offer on this side at 52*l.* per ton, and should this product come along more freely soon this will presumably not be without effect on linseed oil.

Thymol is cheaper, with spot sellers at 36*s.* per lb.

Wood Oil.—Chinese in barrels on spot is quoted at 90*s.* to 95*s.* per cwt., a decline of 5*s.* to 10*s.*

London Drug-auctions.

Commercial Sale Rooms,
Mincing Lane, March 13.

A fair supply of goods was offered to-day, but very little was disposed of, and prices generally tended lower. Cape aloes is firmly held, but only small sales were made. Sumatra benzoin is quite neglected. Cream of tartar was disposed of at a substantial decline, and for cardamoms there was a better demand. Cuttlefish, which has been very scarce during the European war, was more plentiful and in demand. Calumba has still been arriving freely, and sellers privately have accepted a substantial decline. Chinese crude camphor sold at an extremely high price.

Index Folio 258

Dragon's blood and gamboge are quiet. Honey was almost unsaleable, and where business was done a decline of 20*s.* to 30*s.* per cwt. was accepted on the last auction rates. Matto Grosso ipecacuanha was in much better demand, and prices tended firmer. Kola is on the easier side, and liquorice juice and sticks were held for an extremely high figure, but no bids were made. Myrrh is steady, and there is an abundant supply of nux vomica, for which there were no bids. Orange peel was much lower, and for rhubarb there was a better demand at firm rates. Sarsaparilla is quite neglected, and for Tinnevelly senna steady prices were paid for small lots. Beeswax failed to sell in auction, and private prices are steady.

The following table shows the amount of goods offered and sold:

	Offered	Sold
Agar-agar	5	0
Aloes—		
Cape	87	7
Curaçao (cs.)	23	0
Socotrine (kegs)	54	0
Anise	8	0
,, star (Ch.)	50	10
,, oil, star	20	0
Annatto-seed	60	0
Areca	86	0
Argol (Cape)	78	0
Belladonna-root (cwt.)	3	0
Benzoin—		
Palembang	17	0
Siam	6	0
Sumatra	191	24
Black cohosh	7	0
Calumba	323	*73
Camphor (Ch. cr.)	37	37
Camphor oil	75	0
Cannab. ind. (African)	39	0
,, ,, (Amer.)	10	0
,, ,, (E. I.)	4	0
Caraway-seed	13	0
Cardamoms	217	56
,, wild	20	0
Cascara sag.	270	0
Cascarilla	8	0
Cashew nuts	122	0
Celery-seed	10	0
Chamomiles	20	0
Chloral hyd. (jar)	1	0
Cinchona	287	0
Cinnamon-leaf oil (cs.)	27	0
Coca-leaves (Jv.)	19	0
Cochineal	24	0
Colocynth	5	0
Copaiba	23	0
Coriander-seed	100	0
Coumarin (lb.)	150	0
Cream of tartar (cks.)	36	36
Cubebs	7	0
Cumin-seed	251	0
Cuttlefish-bone	139	139
Digitalis	1	0
Dill-seed	20	0
Dragon's-blood	40	0
Egg, whole, dried	50	0
Ergot	9	0
Eucalyptus oil	171	0
Euphorbium	32	0
Fennel-seed	120	0
Fenugreek-seed	40	0
Galls (Ch.)	100	0
Gamboge	18	0
Gentian	119	0
Guaiacum	2	0
Gum acacia	100	0
,, chicle	3	0
Henbane	16	0

	Offered	Sold
Honey—		
Argentine	59	0
Australian	1,865	0
Californian	235	120
Cape	6	0
Chilian	49	0
Cuban	629	8
Demerara	4	0
Dominican	39	0
Hayti	73	0
Jamaica	50	12
Japanese	114	0
San Domingo	400	0
St. Lucia	95	0
Insect-flowers	5	0
Ipecacuanha—		
Cartagena	1	0
Matto Grosso	27	19
Kola	122	12
Lemon-peel	21	0
Lime oil	2	0
Liquorice-juice (blk.)	25	0
,, ,, (sticks)	60	0
,, root	215	0
Mustard (ck.)	1	1
Myrrh	17	6
Nux vomica	1,928	0
Olibanum	201	4
Orange-peel	27	21
Peppermint oil (Wrs.)	6	0
Pot. chlor. powder (cs.)	6	6
Rhatany	10	0
Rhubarb (cs.)	52	30
Salicylic acid	1	0
Sarsaparilla—		
Grey Jamaica	50	0
Lima-Jamaica	44	3
Mexican	26	0
Native Jam.	42	0
Scopolia	54	0
Senna and pods—		
Alex.	143	0
Tinnevelly	474	41
Squill	95	0
Strophanthus	19	0
Tamarinds (W.I.)	98	0
Tonka-beans (Para)	9	3
Tragacanth (bgs.)	50	0
Turmeric	277	0
Wax (bees')—		
Abyssinian	123	0
Benguela	43	0
Cuban	61	0
East African	180	0
East Indian	257	*10
Jamaica	27	0
Morocco	4	0
Mozambique	639	0
West Indian	5	0
Zanzibar	50	0
Wood oil (Canton) (cs.)	500	0

* Sold privately.

Aloes.—Quiet: 87 cases Cape offered on usual 20-per-cent. tares, and 3 sold at 50*s.* per cwt. for ordinary dullish seconds. The limit for good firsts is about 55*s.* to 56*s.* per cwt. A lot of 23 boxes Curacao was bought in comprising good liver at 125*s.*, and dull at 90*s.* to 95*s.* The exports from the Union of South Africa during October 1918 amounted to 4,000 lb. (50*l.*), against 289,106 lb. (2,517*l.*) in October 1917; the ten months (January-October) exports were 343,886 lb. (3,682*l.*), against 700,545 lb. (6,375*l.*) in 1917.

Anise, Star.—A lot of ten cases Chinese sold at 110*s.* per cwt., subject to seller's approval.

Areca is now more plentiful, and several parcels of good bright bold Ceylon are to be had at 100*s.*

Belladonna-root.—For about 3 cwt. of English 5*s.* 6*d.* per lb. was wanted.

Benzoin.—Sumatra met with no demand at auction, buyers having supplied their wants privately. Good fair Sumatra seconds were obtainable at from 11*l.* 5*s.* to 11*l.* 10*s.*, ordinary ditto at 10*l.* 10*s.* to 10*l.* 15*s.*, and good thirds 8*l.* 10*s.*; three cases country-cut seconds sold at 10*l.*, subject; 15 cases fair seconds Palembang were held at 7*l.* 10*s.*

Calumba is cheaper, and although no business was done publicly, a fair trade is passing privately at about 100*s.* per cwt. for fair natural sorts.

Camphor (Crude).—A lot of 37 cases brownish Chinese sold at 650*s.* per cwt.

Camphor Oil.—A parcel of 50 cases of white essential Japanese was limited at 122*s.* 6*d.*, and 25 cases brown at 120*s.*

Cardamoms sold rather more freely, including 30 cases medium to bold brown Aleppy rather weevilly at 2*s.* 6*d.* to 2*s.* 3*d.* Ten cases Ceylon-Mysore sold comprising good bold yellowish pale 5*s.* 3*d.*, medium to bold 4*s.* 8*d.*, small ditto 3*s.*, and brown and split 2*s.* 3*d.* A further 16 cases sold, including small to medium palish Ceylon-Mysore, at 2*s.* 4*d.* to 3*s.*, boldish 3*s.* 9*d.*, Malabar 2*s.* 8*d.*

Cascara Sagrada.—Several parcels of fair bright quill were limited at 110*s.* per cwt.

Chamomiles.—For 20 bales of good white French 275*s.* per cwt. was wanted.

Cinnamon Leaf Oil.—For 10 cases Ceylon, 72 per cent. phenols, 10*d.* per oz. was the limit.

Cream of Tartar continues unsettled, with prices very irregular. Dealers offer French powder (99 per cent.) at from 235*s.* to 310*s.* per cwt. In the drug auction 36 casks powdered (98 to 99 per cent.) offered without reserve for account of whom it may concern, and sold to one buyer at 205*s.* per cwt.

Cuttlefish was in demand, 139 packages of East Indian selling at from 10½*d.* to 11*d.* for small to extra bold damp palish sorts, and 7*d.* for damaged and dirty.

Honey was almost unsaleable, and a decline of 20*s.* to 30*s.* per cwt. was accepted on previous auction prices, there being a complete abstention of buying. Twelve barrels Jamaica were bought by druggists at 75*s.* to 80*s.* for good brown set, and 8 barrels Cuban sold at 75*s.* for fair amber set; 60 cases Californian sold at 80*s.* to 95*s.* for good pale set, and a further 100 cases had been sold privately; 50 cases San Domingo sold without reserve at from 75*s.* to 81*s.*, and 46 casks "loose collected" realised 13*s.* to 15*s.* per cwt. if pay charges. Among the arrivals this week are 1,063 casks Cuban to Greenock.

Ipecacuanha was rather firmer and in much better demand, about 20 bales being disposed of comprising good stout, part mouldy, at 10*s.* 2*d.*, fair bright sound at 10*s.*, and ordinary grey and part mouldy from 9*s.* 5*d.* to 9*s.* 9*d.* per lb.

Kola was rather easier, twelve bags of West Indian selling at 7½*d.*, with one lot at 8¼*d.*, for fair dried halves and whole.

Liquorice Juice.—Thirty cases of "Zagarese" 2-oz. sticks lying in Manchester were limited at 520*s.* per cwt., and for 20 cases of "Disurdo" 520*s.* was also wanted. No bids were made.

Myrrh maintains its previous price, six bags of fair small Somali and part blocky sorts selling at 16*l.* per cwt.

Olibanum.—Four cases sold without reserve, including small drop at 60*s.*, and small drop with a large proportion of block at 25*s.* per cwt. For good pale drop 130*s.* was wanted.

Orange Peel was lower, 21 cases being disposed of at 1*s.* 3*d.* per lb. for ordinary palish strip, and 2*s.* 3*d.* for good pale ditto. For four cases of good bright a bid of 2*s.* is to be submitted.

Potash Chlorate.—A lot of six cases powdered sold without reserve at 9*d.* per lb.

Rhubarb remains firm and in better demand; four cases of medium to bold round Shensi, with three-quarters dull greyish pink fracture, sold at 2*s.* 4*d.*, two cases flat ditto at 2*s.* 4*d.*, and two cases of slightly wormy pickings went at 2*s.* 1*d.* For two cases of medium round Shensi, partly wormy, 2*s.* 8*d.* was paid.

Sarsaparilla remains depressed, only three bales Lima Jamaica being disposed of at 2*s.* 6*d.* for part chumpy and mouldy; for grey Jamaica 3*s.* 6*d.* to 3*s.* 8*d.* was wanted, but there were no counter-bids, and Native was bought in at the nominal figure of 1*s.* 6*d.*

Senna was quiet but steady, 21 bales Tinnevelly selling at 3½*d.* to 3¾*d.* per lb., subject, for ordinary small and medium yellowish sea-damaged leaf, and for medium greenish 6*d.* was paid for a single bale. Pods were held at 4¼*d.*, but failed to sell.

Tonka Beans.—A single half-barrel of fair Para sold at 1*s.* 10*d.*, and two cases of ordinary mixed, part foxy, sold at from 1*s.* to 1*s.* 4*d.*

Wax, Bees, met with no demand in auction; good Jamaica was bought in at 10*l.* 5*s.* to 10*l.* 10*s.*, and Cuban at 9*l.* 10*s.* per cwt.

Index Folio 259

Arrivals of Chemicals, Drugs, etc.

The following arrivals have taken place at the various British ports:

To London

(Mch. 4 to 10).

Acetone (U.S.), 63 drms. (St. John, N.B.), 80 drms.
Alcohol, rect. (St. John, N.B.), 160 drms. (Natal), 300 drms.
Alcohol, wood (U.S.), 77 drms.
Barytes (Sp.), 911 brls. 4,900 bgs.
Calcium carbide (St. John, N.B.), 6,737 drms.
Carbon black, 101 cs.
Chemical products, unrated (Fr.), 8 cs. 10 pkgs.
Acetic acid: (St John, N.B.) 335 brls., (N.Y.) 81 brls.
Ammon. phosph. (N.Y.), 444 brls.
Argol (It.), 744 bgs. (Sp.), 138 cks.
Cream of tartar (Genoa), 60 brls. (Sp.), 85 brls.
Paraldehyde (St. John, N.B.), 50 cs.
Potash sulphate (E.I.), 100 bgs.
Saltpetre, 1,000 bgs.
Tannic acid (St. John, N.B.), 40 brls.
Tartar (Sp.), 180 bgs. (Lisbon), 472 bgs. (It.), 33 cks.
Tartaric acid (It.), 48 brls.
Theobromine (Rotterdam), 4 cs.
Thymol (Sp.), 7 cs.
Drugs, etc., unrated (St. John, N.B.), 40 cs.; herbs (Sp.), 135 sks. (B'more), 130 cs.
Annatto-seed (Jam.), 5 bgs.
Cassia fist: 20 bskts.
Chamomiles (R'dam), 38 bls.
Cinchona (R'dam), 50 bls. 14 cs. (Amst.), 56 bls.
Dagga, 398 bgs.
Ergot (Port.), 5 cs.
Henna (P. Said), 43 bls.
Liquorice (Port.), 115 cs.
Liquorice-root (Cape), 58 bls.
Manna, 9 × ½ cs.
Nux vomica, 400 pkgs.
Orris (Mor.), 32 bgs.
Saffron (Sp.), 6 cs.
Sage (Sp.), 67 bgs.
Strophanthus (Beira), 50 bgs.
Turmeric, 68 bgs.
Drugs, medicines, perf., etc.: Calox, 40 cs.; fig syrup, 6,000 cs.; phosphatic acid (Boston), 100 bxs.; soap (U.S.), 1,958 bxs. (St. John), 4,312 cs.; talcum powder, 300 bxs.
Dyes, dyeing and tanning materials, etc.: Divi divi, 552 bgs.; indigo (E.I.), 8 chts.; logwood ext. dry (W.I.), 246 cks.; wattle bark, 9,889 bgs.
Egg yolk, dried, 4,481 pkgs.; liquid, 813 pkgs.; albumen, 1,069 cs.
Glucose (N.Y.), 5,098 brls.
Gums, resins, etc.: Chicle, 14 pkgs.; gums, not described (Aust.), 3,685 bgs. (Suez), 100 bgs. (Alex.), 222 bgs.; sandarac (Mor.), 14 brls. 16 bgs.; seed lac (Cal.), 767 bgs.
Honey (Aust.), 3,467 cs. 1,153 pkgs. (N.Y.), 75 cs. (Jam.), 3 brls. 11 cks. 5 × ½ cks. (Sp.), 134 brls.
Lemon-juice (Sic.), 8 pps.
Lime-juice (Jam.), 56 puns.
Oils, essential (Messina), 84 pkgs. (Sp.), 2 drms.; cajuput (Amst.), 11 cs.; citronella (Cey.), 15 drms. (Burma), 7 crts.; juniper (It.), 5 cs.; lemon, 13 cs. 20 × ¼ cs.; orange (W.I.), 109 cs. (Sic.), 21 × ½ cs. 4 × ½ cs.
Oils, fixed: Coconut (Cey.), 523 cks.; cotton, 4,000 brls.; olive (Sp.), 20 brls. 4 cs.; sperm (Lisbon), 32 cks. 182 brls. (Natal), 150 drms.
Perfumery (Fr.), 49 cs.
Quicksilver (It.), 1,975 btls.
Rosin (Port.), 61 cks. 500 bgs. 96 brls. 40 bxs. (U.S.), 2,500 brls.
Seeds (bags): Almonds (Sp.), 725, 1,077 cs. 357 pkgs. 3,992 bxs. (Mor.), 4,643; castor (E.I.), 7,953; coriander (Mor.), 4,333; cotton (Alex.), 5,000 tons; dari (Mor.), 1,090; cumin (Mor.), 2,215; fenugreek, 1,264; lin. (E.I.), 14,644; sunflower, 984.
Spices: Arrowroot, 42 brls.; cinnamon (Cey.), 199 bls.; ginger (Jp.), 238 bgs. (Jam.), 77 bgs.; pepper (Cal.), £3¾ bgs.; pimento (Sp.), 37 cs.
Starches (bags), 1,334: farina (Jp.), 2,148; wheat, 28,579.
Tallow (Aust.), 400 cks.
Tallow, veg. (Ch.), 250 pkgs.
Wax, bees' (E. Af.), 50 bls. 90 bgs. 172 pkgs. (Cal.), 35 cs. (Egypt), 84 bgs. (Mor.), 452 bgs.
Wax, paraffin, 1,286 brls. 1,244 cs. 5,254 bgs.; scale, 1,741 brls. 1,767 bgs.

To Liverpool

(Mch. 3 to 8).

Almonds (Sp.), 365 sks. 6,264 bxs. 383 bgs. 1,330 cs.
Chemical products: Cream of tartar (Fr.), 6 cks. (Sp.), 52 brls. (N.Y.), 501 kgs.
Dimethylaniline (N.Y.), 65 drms.
Formaldehyde, 112 brls.
Saccharin (N.Y.), 7 cs.
Saltpetre, 3,404 bgs.
Drugs (N.Y.), 517 cs.
Areca, 48 bgs.
Araroba (Bahia), 22 cs.
Balsams (Manaos), 84 cs. (Para), 30 cs.
Gentian (Sp.), 29 sks.
Roots, medicinal (Bahia), 100 bgs
Senna (B'bay), 15 bls.
Turmeric, 140 bgs.
Drugs, medicines, perf., etc.: bronchial tabs. (N.Y.), 51 cs.; dental creams and fancy soaps (N.Y.), 672 cs.; emulsions (N.Y.), 1,440 bxs.; soaps (St. John, N.B.), 3,998 bxs.
Dyes, dyeing and tanning materials, etc.: Cochineal, 60 bgs.; cutch, 2,300 bxs.; fustic, 21 tons; logwood, 52 tons; logwood ext., 100 cks.; myrobalans, 2,566 bgs.
Gums, not described (Alex.), 563 bgs.; chicle, 50 cs.; olibanum, 46 cs.
Glucose, 100 brls.
Honey (St. John, N.B.), 989 cs. (Jam.), 314 cks. (N.Y.), 648 brls.
Oils, essential: Citronella (R'goon), 56 crts.; turpentine (Fr.), 502 cks.
Oils, fixed: Coconut (Cal.), 9,024 × ½ cs.; olive (Fr.) 26 cs., (Sp.) 40 cs.; palm, 5,441 cks.
Petroleum jelly, 64 cs.
Rosin (Fr.), 1,949 cks.
Seeds: Almonds (W. Af.), 252 bgs.; castor (E.I.), 17,356 bgs.; copra, 242 bgs.; cotton (Alex.), 1,267 tons; ground nuts, 1,728 tons 2,756 bgs.; lin. 91,054 bgs.; palm kern, 145 tons 71,582 bgs.
Spices (bags): ginger (Cal.), 46; pepper, blk. (Cal.), 373
Starches (bags), 2,860; farina, 4,038; dextrin (N.Y.), 880.
Tallow, 1,105 trcs.
Wax, bees' (Cal.), 28 cs.
Wax, candelilla, 99 sks.
Wax, carnauba (Bahia), 85 bgs.
Wax, paraffin, 1,232 brls. 4,190 bgs.

To Greenock.

Honey (Cuba), 1,063 csks.

To Southampton.

Drugs (Fr.), 220 cs.

Fourteen American Companies for the manufacture and distillation of chemicals, drugs, and dyes were organised during November, their aggregate authorised capitalisation being $3,870,000, this being the largest total for any month since April 1918. The aggregate authorised capital of new drug and chemical companies formed during the war period —August 1914 to November 30, 1918—is shown to be $394,795,000.

Correspondence

Drug-farming for Disabled Soldiers.

Sir,—I desire to endorse your suggestion that the Ministry of Pensions should appoint an expert to look into the question of the desirability of drug-farming as a suitable occupation for disabled sailors and soldiers. Taken merely as a pastime, this desultory collecting of the herbal wealth of our country woods and byways is fascinating enough, while as a health restorative for our war-worn soldiers no more invigorating and refreshing means of building up anew the enfeebled frame and shattered nervous system could be imagined. "It's all very well, sir, what you say," remarked a bright young soldier to me the other day as he leaned heavily on a stout stick to support his partially useless limb: "But is there sufficient money in it to keep things going for a chap like me? Can this herb farming and collecting be made to pay?" My answer was the same that I should like to make to the many anxious inquirers whose letters daily reach "The Whins" Herb Farm, Chalfont St. Peter, Bucks. First and foremost, learn the business thoroughly under an experienced and recognised authority, such as Mrs. Grieve, F.R.H.S. Get an exhaustive grounding in all branches of herb culture—growing and collecting and drying—work earnestly and intelligently for such a period of training as you can afford—and you have assuredly set yourself up in a safe and remunerative "going concern," which requires no more capital than the modest amount of your training fees, and no more stock-in-trade than your own energy and common sense in making the best use of the knowledge you have acquired. There is no waiting in the case of herb cultivation: you can start collecting leaves and roots of immediate market value from the very hour you have learned how to distinguish one plant from another, and in what condition of growth they should be picked or dug. The business of the cultivation of herbs offers an advantage in cases where weakened constitutions have to be considered. There is always the comforting warmth of the drying-sheds and stove-room. In my opinion herb culture stands first in the splendid opportunities it offers to those seeking occupation under healthful conditions. As one who has served the country as a voluntary soldier for many years, who has held his Majesty's commission almost since boyhood, I should like to make an appeal to those in authority in connection with the employment of disabled soldiers. Ex-Service men who have won every consideration by the heroism they have displayed throughout the most terrible war in all history surely have the right to choose what particular form of industry they wish to follow now that the days of their ordeal are over and they have come back, maimed in many cases, to make a home on a few acres of their native soil. Many of these have already expressed a desire to engage in the culture of herbs as an adjunct to the ordinary work of the small-holding. Why should they not be allowed to do so, and given the necessary permission and grant by the Government?

Yours faithfully,
C. Rae-Brown.

The Bungalow, Chalfont St. Peter.

Dentists Act Committee's Report.

Sir,—From the above Report it is evident that the practice of dentistry by unregistered persons is quite legal, also that there are two classes of unregistered—the desirable and the undesirable. Among the better class are chemists—members of the Chemists' Dental Society, the Dental Society of Ireland, the Incorporated Dental Society, Ltd., and similar bodies. We who practise pharmacy with dentistry have always in the past been indebted to the *C. & D.* for furthering our cause, and we ask for your support in defeating the unjust recommendation that chemists who will be admitted to the new Dental Register should be compelled at the end of five years from registration to give up the practice of either dentistry or pharmacy. We hold that such a suggestion is unjust and contrary to all precedent, as when the Dentists Act, 1878, was framed provision was made for those who practised pharmacy with dentistry to be registered equally with those who practised medicine and surgery. Then we have the case of the medical man: he is allowed to carry on pharmacy, dentistry, the supply of surgical appliances, and even farming or dealing in livestock, if he so desires; and yet a person who practises pharmacy is to be confined to one thing

because he is unfortunate enough to follow a scientific calling and a branch of medicine which somehow or other does not meet the approval of certain interested individuals. If the chemist is to be limited as to his practice at all under the new Act, let it be to the supply of drugs, medicines, and surgical appliances, as no harm can result to the public nor to the dignity of dentistry by his so doing, for if such a practice is good enough for the medical profession it is good enough for that of dentistry. Another weakness of the recommendation is that it fails to eliminate the undesirable section who have entered dentistry from non-scientific callings and have brought dentistry into disrepute; it seems to attach value to the time spent in practice rather than to the honourable manner in which it is conducted, and to the quantity of work done rather than the quality. Another suggestion I have to make is that those who have honourably conducted dental and pharmaceutical businesses, though the dental part has been limited to extractions with local anæsthetics and the supply of artificial dentures, say, for three years, should be admitted to the Register if they satisfy the Committee to be appointed for examination purposes that they have acquired the necessary knowledge in conservative dentistry within two years after the passing of the new Act. In any case I hope we shall put up a good fight for our right to practise both professions, though no doubt it will be the last phase of the history of the dental-pharmaceutical epoch.

Dental Chemist. (9/19.)

"New British Industries."

Sir,—In the *C. & D.*, March 1, p. 61, "Xrayser II.," commenting on Mr. Woolley's paper at Leeds on "New British Industries," refers to my suggestion to abolish proprietary names and classes as "hardly practicable." I can to some extent appreciate his attitude from the report of my extemporary remarks, exemplifying the danger of giving suggestions and criticisms without preparation. I should like to amplify my remarks. A strictly scientific name cannot be registered, as, for instance, hexamethylene-tetramine or aceto-salicylic acid—the former known under the German registered title of urotropine (now public property), and the latter as aspirin. The happy synonym of the first we found in hexamine, and it is generally prescribed now under that name. The second sticks to its German name, aspirin. Now, why should "Xrayser II." say that the registration would be inimical to the home as well as the foreign manufacture (agreeing that it would be inimical to foreign manufacture), and would therefore be opposed by them. When I require the best sodium bicarbonate I specify a certain maker whose preparation, in my opinion, is the best. I am prepared to pay more for it. There may be, possibly there is, a better maker than this one, but I place my reliance on the reputation of the firm. When buying aspirin I specify a particular maker, but all chemical-manufacturers may manufacture aspirin and sodium bicarbonate. It is up to them to produce the best product, and it is legitimate commerce for them to impress this fact on the profession. I can see no difficulty in keeping a register of appropriate synonyms for chemicals and drugs. I am strongly opposed to all secret remedies and mystifying fancy names. It is against the public health, but the point which "Xrayser II." has raised, and the one which I touched mainly upon, is the commercial one, and the commercialism of drugs should be controlled by the public well-being. The specific purpose of registration and the Patent Act is to safeguard and give adequate remuneration to the inventor and manufacturer. But is anything really invented in the laboratory? Is it not more a process of evolution from ideas very often nebulous, but which give matter for thought and experiment? The ideal in dealing with the nomenclature of pharmaceutical products would be an official compendium of registered trade name and scientific name. But to whom are we to appeal? We have a precedent in the British Pharmacopœia, but the B.P. still has upon it the heavy hand of Professor Attfield and the other compilers of his time. It should be the work of the Pharmaceutical Society. It could be done by them. There is the ability at Bloomsbury Square, but would anyone reading the reports of the meetings of the Pharmaceutical Society have the temerity to suggest that it would be done? I would like to thank "Xrayser II." for pointing out the error into which I fell by suggesting strictly scientific names. I should have said practical synonyms. Yours truly,

221 Woodhouse Lane, Leeds. M. E. Murray.

The Question of the Unqualified Assistant.

Sir,—I have followed this correspondence with interest, and should like to say that the majority of "Minor" men have a too-inflated opinion of the rights the possession of the certificate bestows. The sooner they recognise that it is simply a licence to sell retail and to dispense poisons (the amount of poison sold in the average chemist's shop in a week would hardly cover his rent), and to use the title "chemist," the better for their peace of mind. Now, the title is hardly applicable to-day, for a glance at most chemists' windows gives the impression that the shop is a perfumer's or barber's, unless you look for the title or other sign. Another point the Minor man should remember is that dispensing is not reserved to him (unless the prescription contain a scheduled poison), neither is the sale of drugs or B.P. articles, nor, for that matter, is the wholesale dealing in poisons. It seems that for the altered conditions of the business to-day we need a revised Pharmacy Act. The title "pharmacist" is the most suitable for those engaged in dispensing prescriptions and selling drugs and medicines, and should be reserved to qualified men or women. The Apothecaries' Society should be asked to bring the standard of their Assistants' examination up to that of the "Minor," the same as they had to do years ago with respect to the Licentiate examination, and the Pharmaceutical Society compelled to accept the Assistants' examination for registration in the same manner as the General Medical Council does with medical diplomas. It is certainly time that the sale of drugs was confined to trained individuals, who understand something of their action and dosage. Yours truly,

Fair Play. (31/49.)

Recognition of the Amalgamated Union Refused.

Sir,—Arising out of the discussion taking place in the trade regarding the organisation of drug and chemical workers—all grades—and the claim of the Amalgamated Society of Pharmacists, Drug and Chemical Workers to form the workpeople's side in any Industrial Council that may be formed, I take this opportunity, on the instructions of the unions at present representing the workers in the trade, to point out that application for representation has been made by the Amalgamated Society of Pharmacists, Drug and Chemical Workers, and that, after careful consideration, it has been decided that it is not in the interest of trade unionism, nor in the interest of the workpeople concerned, that official recognition should be given to a body of persons who, through some real or imaginary grievances, break away from their own Society and set up a rival organisation. There are enough unions already in being, well established and of good standing, to cater for the needs of all drug and chemical workers—manufacturing and distributing—and the setting-up of another means division instead of unity among the workers. In view of this position, it was agreed that the application of the Amalgamated Society of Pharmacists, Drug and Chemical Workers for inclusion in the Committee of Unions represented on the Joint Board of Employers and Employed be not entertained. Yours truly,

A. Boyd,
Hon. Secretary to the Workpeople's Portion of the Joint Committee.
National Warehouse and General Workers' Union,
1 Southampton Row, London, W.C. 1.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Herb-drying.

Herb-worker (83/48) writes: "Will any of your readers give suggestions as to what would be a fair wage to two men per week for preparing roots, etc., for a dryer? How long it would take the men to prepare 1 ton of four-year-old belladonna-roots for the dryer, using a hand guillotine chopper, which would slice three or four roots at once?"

Rendering Glass Opaque.

Referring to the request in the *C. & D.*, March 8, p. 71, opaque, I take it, means non-transparent. In which case your querist is up against trouble. If he wants something that prevents anyone seeing through the glass from either side then something can be done. The panes can be ground, if not of large size. Ground glass is easily made with emery and plenty of water. The panes would have to be removed and done by hand, or by subjecting them to the fumes of fluoric acid. This would, I think, be the best way. Something could also be done with a soluble fluoride, but paint and even a matt varnish are not easily removed by anything short of a very sharp knife. Also the coloured papers initiating stained glass are, if properly put on, etxremely difficult to get off. If the girls are inside why not apply the pigment outside, and out of their reach?—*J. P. N.*

Legal Queries.

W. H. K. (80/41).—Triangular bandages are not included in the list of prescribed appliances issued by the National Health Commissioners, and are not therefore supplied free to insured persons.

Chrismol (80/13).—Applications in regard to apprentices who have lost part of their training owing to war service (*C. & D.*, February 22, p. 52) should be made to the local Employment Exchange of the Ministry of Labour.

L. S. (35/62).—The formula for New World liniment given in the *Chemist and Druggist Diary* 1919 should have the reference "*C. & D. Diary* 1919" on the label to show that it is a "known, admitted, and approved remedy." That work and "Pharmaceutical Formulas" were the first to be recognised by the Board of Customs and Excise as standard works of reference.

F. B. (42/13).—The references which a seller of a business requires from a prospective purchaser are such as will satisfy him that the latter is in earnest, and has the required money at his disposal. If you have had dealings with wholesale houses for some time they would probably testify to the fact that you were a regular payer. You could easily satisfy the seller as to your financial standing by producing the share certificates which you hold.

X. Y. Z. (253/26) asks what arrangements are usually made when a man wishes to enter the service of another as an assistant or manager with a view to purchasing the business. [It is not quite clear to us what it is "X. Y. Z." wishes to know, but we gather that the case he refers to is one in which both the employer and the employed contemplate that the latter may in course of time acquire the business. We suggest that the proper course in such circumstances would be for the assistant or manager to enter the service of the employer, at a salary, in the usual way, until such time as the parties decide to arrange the transfer of the business.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

M. R. & Co. (41/69).—Alum-water.—This probably refers to the liquor aluminis compositus P. L. 1851, also known (in earlier Pharmacopœias) as Bates's alum water. The formula is:

Aluminis,		
Zinci sulph.	aa	℥j.
Aq. dest.		℥xlviij.

Rub the alum and zinc sulphate together and dissolve in the water; then strain.

H. R. H. (52/30).—Books on Brewing and Distilling.—Thatcher's "Treatise on Practical Brewing and Malting" ("County Brewers' Gazette," 21*s.* 6*d.*); Sykes & Ling "Principles and Practice of Brewing" (Griffin & Co.); Brannt's "Practical Treatise on the Distillation and Rectification of Alcohol" (Low, 21*s.*); Matthew's "Manual of Alcoholic Fermentation" (Arnold, 2*s.* 6*d.*). You will find the articles on these subjects in Thorpe's "Dictionary of Applied Chemistry" useful for your purpose.

W. A. (25/45).—Horticultural Chemicals.—Lead arsenate is used as a spray solution for destroying caterpillars on fruit-trees. The strength of the spraying liquid is 1 lb. of lead arsenate to 50 gals. of water. Liver of sulphur is used against mildew on plants. Caustic soda solution is used for cleaning the trunks of fruit-trees. A number of formulas for agri-horticultural solutions will be found in the *C. & D. Diary*, 1910.

J. D. R. (73/28).—Books on Dentistry.—A treatise on extracting and filling teeth was published in *The Chemist and Druggist Diary*, 1910. Books on the subject suitable for chemists' use are: Coleman's "Extraction of Teeth" (Lewis, 3*s.* 6*d.*); Barrett's "Dental Surgery" (Lewis, 3*s.* 6*d.*); Gibbs' "Extraction of Teeth" (Livingstone, 8*s.* 6*d.*); Tomes and Nowell's "System of Dental Surgery" (Churchill, 17*s.* 6*d.*).

J. C. (59/40).—A slight coating of paraffin-wax will render badly fitting glass stoppers usable, although corks would be better if the contents of the bottles are volatile.

G. H. D. (27/45).—Books on the Cultivation of Tea.—The following are the best works on this subject: Ibbetson's "Tea, from Grower to Consumer" (Pitman & Sons, 1*s.* 6*d.*, 1917); Crole's "Tea: a Text-book of Tea Planting and Manufacture" (Lockwood & Son, 1897); Wallis-Taylor's "Tea Machinery and Tea Factories" (Lockwood & Son, 1900).

F. H. H. (233/1).—Lin. Simplex. L.I.P.—This is a mixture of soft soap (½ oz.) and methylated spirit (1 oz.), but "F. H. H." complains that he has not been able to make a liniment of proper consistency, a jelly being formed. It is likely that the soap employed has been a "war-emergency" sort, which contains an undue proportion of soda soap. We have come across several samples of this kind, both B.P. (?) and commercial. If you try sapo mollis, B.P., you should have no further difficulty in producing a liquid preparation.

E. D. O. (38/42).—Emulsio Iodoform, B.P.C.—Our subscriber asks whether it is correct to describe this preparation as an emulsion, seeing that the iodoform settles at the bottom of the bottle. The formula is:

Iodoform, in small crystals ...	44 gr.
Alcohol	a sufficient quantity
Glycerin, by weight	306 gr.
Distilled water	95 minims

It is not correct to call the preparation an emulsion in the conventional sense of the term. The description was most likely applied to it, for want of a better term, when it was first prepared. When newly made it looks somewhat like an emulsion. Probably a better name would be glycerin of iodoform. So far as suspension of the iodoform goes, we incline to the opinion that as the preparation can be stirred up before use it is as well not to introduce any organic decomposable material like gum or starch. When stirred up the iodoform remains in suspension long enough for leisurely manipulation. The British Pharmaceutical Codex states: "Emulsions are mixtures of fats, oils, resins, or waxes reduced to a fine state of division and uniformly diffused in liquid, aggregation of the divided particles being prevented by the use of an emulsifying agent." According to your experience aggregation of the particles of iodoform is not prevented. The conventional idea of an emulsion is that it contains something which has been broken up and prevented from resuming its original condition by the influence of a medium.

Dens (65/14).—Dental Anæsthetic.—In preparing solutions of cocaine it is essential that everything employed—distilled water, measures, flasks, bottles, corks—should be perfectly sterilised, cocaine solutions being peculiarly prone to develop growths. There is no harm in using a preservative. Some makers fancy salicylic acid, others phenol, and chloretone seems to be the ideal preservative for use along with normal saline solution, which alone is not strong enough to preserve longer than a couple of days or so. There are preparations on the market similar to what you make, and they appear to possess permanent keeping properties and at the same time afford complete satisfaction in use, so we think you may discard your dislike to use a preservative, but by all means sterilise as well.

S. H. C. (19/25).—Waterproofing Cloth.—The lead-alum process is as follows:

Dissolve 3 oz. of alum and 4 oz. of lead acetate in 1 gal. of water, and soak the cloth in the unfiltered liquid.

The waterproofing effect is produced by the lead sulphate deposited in the pores of the cloth.

E. S. (37/69).—Modelling Clay.—The ingredients employed in making educational modelling clay are sublimed sulphur, rice starch, olive oil, and glycerin. We have not worked out the correct proportions, but a few experiments will help you to decide this point.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 15, 1869

The Sandford Testimonial Fund.

Dear Sir,—The Committee having decided to close the Subscription List to this Fund on the 7th of April next, we beg to ask if you desire your name to be added thereto.

We are, dear Sir,

Yours faithfully,

Michael Carteighe, 172 New Bond Street, London, W.
John Mackay, 119 George Street, Edinburgh,
Henry Matthews, 60 Gower Street, London, W.C.,
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Messrs. Hawker & Botwood.

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Yours faithfully,
(Signed) H. WARD.

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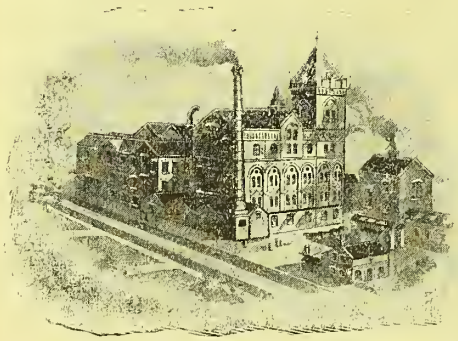

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Pulv. Glycyrrh. Co. B.P. (Green), Englisb Ground, 56 lbs. @ 140/- cwt.
Pulv. Ipecac. Comp., P.B., 1 lb. @ 11/6 lb.
,, Jalap Comp., P.B., 1 lb. @ 4/4 lb.
,, Rhei Comp., P.B., 1 lb. @ 3/3 lb.
Quassia Chips, 1 cwt. @ 53/6 cwt.; 28 lbs. @ 6½d. lb.
Quinine Hydrobromas, B.P., 25 oz. @ 4/6 oz.; 10 oz. @ 4/8 oz.
Quinine Hydrochlor., B.P., 25 oz. @ 4/10 oz.; 10 oz. @ 4/11 oz.
Quininæ Sulph., B.P., 100 oz. @ 3/2½ oz.; 25 oz. @ 3/3½ oz.; 10 oz. @ 3/6 oz.
Rad. Gentian, English Ground, 1 cwt. @ 118/- cwt.; 7 lbs. @ 1/2 lb.
Rad. Jalap, English Ground, 28 lbs. @ 3/3 lb.; 7 lbs. @ 3/5 lb.
Rad. Rhei, E.I., English Ground, 1 cwt. @ 1/9½ lb.; 28 lbs. @ 1/11 lb.; 7 lbs. @ 2/1 lb.
Rad. Rhei, E.I., Trimmed, 7 lbs. @ 7/6 lb.; 1 lb. @ 8/- lb.
Resorcin, B.P., 1 lb. @ 42/- lb.
Saccharine, 7 lbs. @ lb.; ·550 or ·500, 1 lb. @ lb.
Sacchar. Ust., 1 cwt. @ 1/4 lb.; 10 lbs. @ 1/5½ lb.
Saffron. Valentia, B.P., 7 lbs. @ 52/- lb.; 1 lb. @ 52/6 lb.; 1 oz. @ 3/6 oz.
Salicinum, B.P., 1 lb. @ 38/- lb.
Salol, B.P., 1 lb. @ 8/- lb.
Sang. Draconis, pulv., English Ground, 7 lbs. @ 4/- lb.
Santoninum, B.P., 16 oz. @ 224/- lb.
Scammony Resin, Pulv., B.P., 7 lbs. @ 10/6 lb.; 1 lb. @ 11/- lb.
Shellac (Orange), 1½ cwt. @ 310/- cwt.; 7 lbs. @ 3/- lb.
Soda Cit., B.P., 3 lbs. @ 5/4 lb.
Sodii Bromid., P.B., 7 lbs. @ 3/10 lb.
Soda Hyposulphite, pea cryst., 1 cwt. @ 55/6 cwt.
Soda Hypophosph., 7 lbs. @ 4/7 lb.; 1 lb. @ 5/6
Sodii Salicyl. Pulv., 2 lbs. @ 5/- lb.
*Spt. Æther Nit. P.B., 4½ lbs. @ 5/11 lb.; 1 lb. @ 6/2 lb.
* ,, Ammon. Aromat., P.B., 5 lbs. @ 4/10 lb.
* ,, Chloroform, P.B., 5 lbs. @ 6/- lb.
Strontiæ Bromid., 1 lb. @ 8/6 lb.
Strychnini Cryst. B.P., 4 oz. @ 8/6 oz.; Hydroch. and Sulphate. 2d. oz. less.
Sugar of Milk, P.B., 1 cwt. @ 260/- cwt.; 7 lbs. @ 2/6 lb.
Sulphonal, P.B., 1 lb. @ 140/- lb.
*Syr. Aurant., P.B., 7 lbs. @ 1/8 lb.
* ,, Easton, B.P., 7 lbs. @ 2/2 lb.
* ,, Ferri Iodid, P.B., 7 lbs. @ 1/10½ lb.
* ,, Ferri Phosph. Co., 7 lbs. @ 10½d. lb.
* ,, Hypophosph. Co., B.P.C., 7 lbs. @ 1/10 lb.
* ,, Pruni Virg., B.P., 7 lbs. @ 1/3 lb.
* ,, Rhamni, 7 lbs. @ 1/4 lb.
* ,, Rhei, B.P., 7 lbs. @ 1/6 lb.
* ,, Scillæ, P.B., 7 lbs. @ 1/- lb.
* ,, Sennæ, P.B., 7 lbs. @ 1/6 lb.
* ,, Tolut, P.B., 7 lbs. @ 1/3 lb.
Thymol, 1 lb. @ 48/- lb.
Tinct. Aurantii Recens. B.P., 5 lbs. @ 8/9 lb.; Aquos, 1/8 lb.
*Tinct. Belladon., B.P., 5 lbs. @ 5/6 lb.; Aquos, 2/3 lb.
*Tinct. Benzoini Comp., 5 lbs. @ 6/2 lb.
*Tinct. Camph. Comp. P.B., 5 lbs. @ 4/4 lb.; Aquos, 2/1 lb.
*Tinct. Cantharides, P.B., 5 lbs. @ 6/5 lb.
*Tinct. Capsici, B.P., 5 lbs. @ 4/2 lb.; Aquos, 1/5 lb.
* Tinct. Card. Comp., 5 lbs. @ 3/4 lb.; Aquos, 1/6 lb.
*Tinct. Catechu, P.B., 5 lbs. @ 3/8 lb.; Aquos, 1/8 lb.
*Tinct. Chlorof. c. Morph., P.B., 1885. 5 lbs. @ 4/6 lb.
*Tinct. Cinchon Comp., B.P., 5 lbs. @ 5/3 lb.; Aquos, 1/9 lb.
*Tinct. Cinchon. Rub., P.B., 5 lbs. @ 4/11 lb.; Aquos. 1/9 lb.
Tinct. Digitalis, B.P, 5 lbs. @ 4/11 lb.; Aquos, 1/9 lb.
*Tinct. Gelsem, P.B., 5 lbs. @ 4/2 lb.; Aquos, 1/10 lb.
*Tinct. Gentianæ Comp., B.P., 5 lbs. @ 3/3 lb.; Aquos, 1/7 lb.
*Tinct. Hyoscyam., B.P, 5 lbs. @ 5/6 lb.; Aquos, 2/6 lb.
*Tinct. Iodi, B.P., 5 lbs. @ 6/9 lb.; Fort. @ 8/4 lb.; decolor., 5 lbs. @ 6/9 lb.
*Tinct. Lavandulæ Comp., B.P., 5 lbs. @ 6/- lb.; Aquos, 1/9 lb.
*Tinct. Myrrhæ, B.P., 5 lbs. @ 6/2 lb.
*Tinct. Nucis Vom., B.P., 5 lbs. @ 4/7 lb.; Aquos, 1/9 lb.
*Tinct. Opii, B.P., 5 lbs. @ 10/2 lb.
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*Tinct. Quininæ Amm., B.P., 5 lbs. @ 4/6 lb.
*Tinct. Rhei Co., B.P., 5 lbs. @ 3/3 lb.; Aquos, 1/7 lb.
*Tinct. Scillæ, P.B., 5 lbs. @ 4/- lb.; Aquos, 1/5 lb.
*Tinct. Senegæ, P.B., 5 lbs. @ 5/6 lb.; Aquos, 2/5 lb.
*Tinct. Strophanth., P.B., 5 lbs. @ 5/5 lb.
*Tinct. Valerianæ, 5 lbs. @ 4/11 lb.; Aquos, 2/- lb.
*Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 5/1 lb.; Aquos, 2/- lb.
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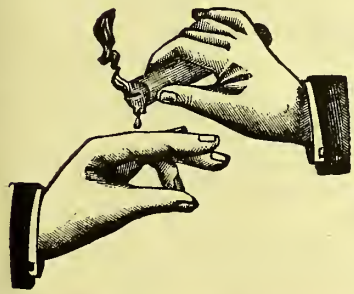

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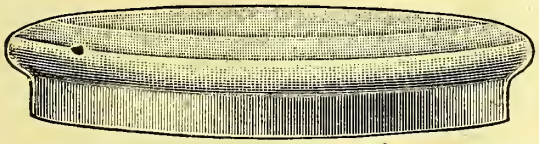

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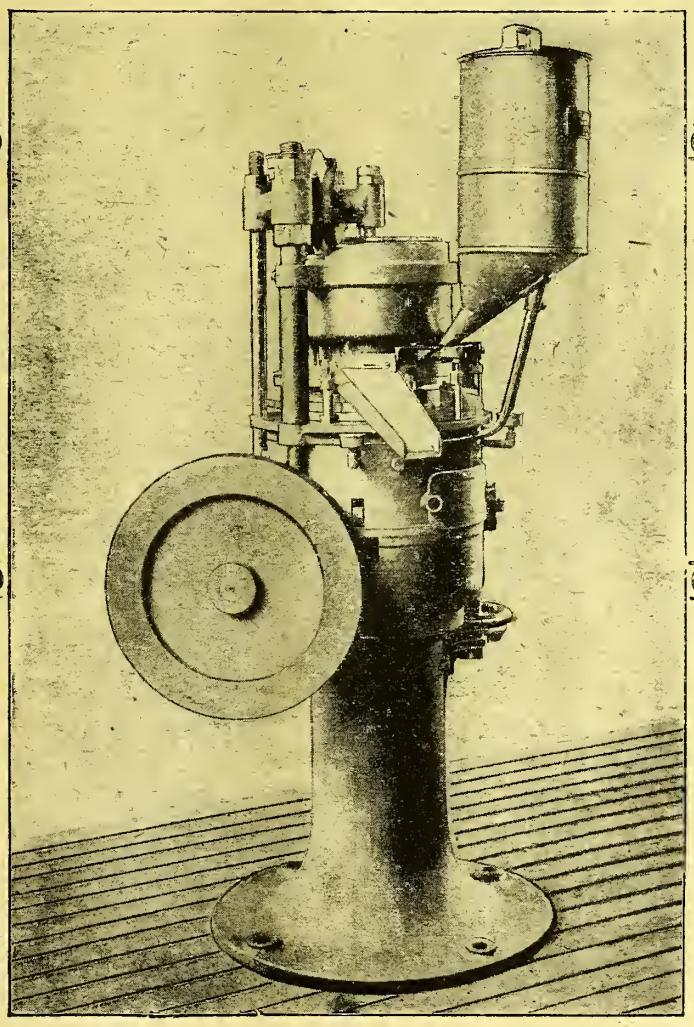
ROTARY TABLET MACHINE

recognised by the largest users as the

BEST ROTARY MACHINE ON THE MARKET.

20-Die Pattern for Tablets up to ½-in. dia.

OUTPUT 700 Tablets per minute



12-Die Pattern for Tablets up to ⅞-in. dia.

OUTPUT 400 Tablets per minute

This machine has done great service during the war, compressing Medicinal Tablets and also Explosives. The worm-gear is most powerful, and runs completely submerged in a bath of oil, which lengthens its life considerably.

Prices and further particulars, and for various sizes of Single-Punch Type Machines, Ointment Mills, Capsule Machines, and other Pharmaceutical Apparatus, from

S. W. Wilkinson & Co. ENGINEERS, SPECIALISTS IN PHARMACEUTICAL MACHINERY **Little Holme St., Leicester.**

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SIMPLICITY ITSELF.

STOKES' GAS-HEATED WATER STILL will distil half to two-thirds of a gallon per hour.

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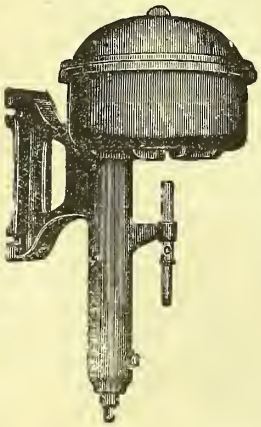

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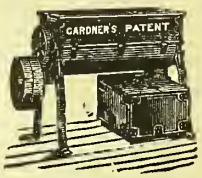

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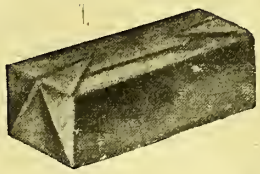

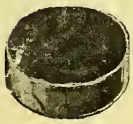

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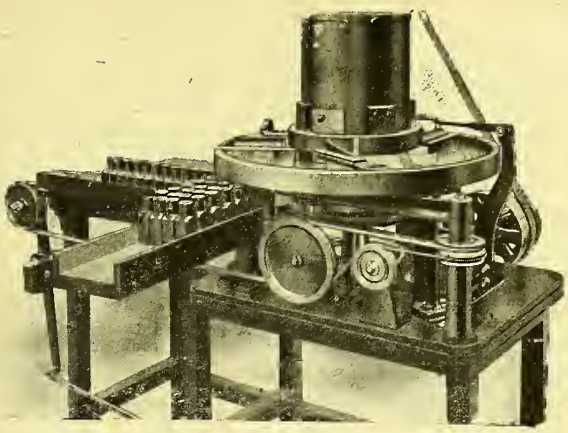

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The IDEAL SANITARY WASHABLE WATER PAINT supplied in twenty beautiful shades in

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FINEST DECORATORS' QUALITY

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Write for SHADE CARDS and LOWEST PRICES.

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"Rodine" & Tin Removed Complete.

Mr. W. J. Snow, Chemist, Caterham Valley, writes: 4/2/19. "We had rats on our premises and they ate the luting off the tops of the Ether and Chloroform bottles, so I opened a 1/- tin of Rodine, when I was called away intending to return and place small pieces about as per directions; but no tin was to be found (only the lid), the rats had taken the tin away complete, and evidently the whole community 'indulged' for we have not seen any trace of them since."

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at PRICES LOWER than you are PAYING, you will appreciate that we don't need a full page to bring it to your notice—YOUR BUSINESS INSTINCT will do that—all you want is our address:

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Information has reached the London Office that the factory producing "V. B." Juice is once again in operation. Supplies should therefore be coming through in a month or two.

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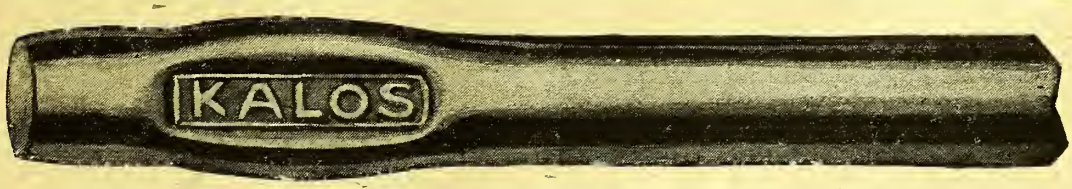
THE CHEMISTS' BRAND.

'The Lancet' says: 'Of Standard Purity'

Recommended also by *The British Medical Journal, Health, The Chemist and Druggist, Food and Sanitation.*

Ask for SHOWCARDS and HANDBILLS. To be obtained of all Wholesale Houses.



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DELICIOUS AERATED BEVERAGES

ARE MADE FROM

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TRADE MARK.

Antiseptic. Absorbent.

"CYNTA" Registered HYGIENIC TOWELINES FOR LADIES

SEAMLESS KNITTED — NON-STRETCHING

ELASTIC COVER — WOVEN COVER

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Approved and recommended by the Medical Faculty

IN PACKETS of 1 DOZEN

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9/6 per gross. 1/- retail.	**12/6** per gross.	**17/-** per gross.	**22/-** per gross.	**26/-** per gross.

The Most Comfortable and Efficient of all Ladies' Towels.

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ESTABLISHED 1847.

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A REMEDY OF 70 YEARS' STANDING.

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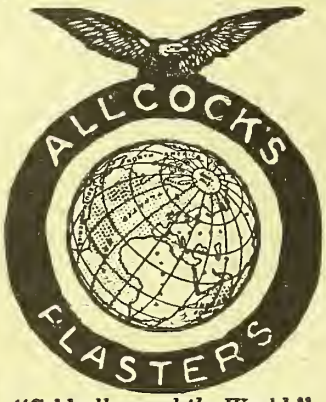
Brandreth's Pills
The Three Reliables.



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COTTON WOOL, 1/6 per lb.

In 1-cwt. lots. 56 lbs. at 1/6½; 28 lbs. at 1/7
Carriage paid, cash with order. Wrappers 3/6 extra, returnable.
A splendid wool, perfectly white and absorbent.
In 1 lb. rolls interleaved. Sample for p.c.
A client writes: "Thoroughly pleased with last lot."
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EXCELSIOR CREPE BANDAGE NAME

Owing to the War, the supply of Crepe Velpeau Bandages is discontinued. We, are, therefore, placing on the market a bandage of ENGLISH manufacture to replace it, which will be sold as

GIMBER'S EXCELSIOR CREPE BANDAGE

TRADE MARK.

An Elastic Bandage. Containing no Indiarubber. Superseding Elastic Stockings, Webs, Bandages, and at half the cost. Three sizes, about 2, 2½, and 3½ inches wide. Excelsior Crepe Abdominal Binders.—Useful after many Abdominal Operations, and for ladies after confinements. Two sizes: 8 & 11 in. wide.

CAUTION.—Beware of fraudulent and useless imitations, and reject all Bandages not bearing the above Trade Mark on the Wrappers.

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And of all Wholesale Druggists, Chemists, Surgical Instrument Makers, &c.
Telephone: New Cross 1601. Descriptive Circular & Price List on application.

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SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES.

"I'm ready to get off to business as soon as I get my Norvic Crepe Bandage on."

Extremely Elastic, but contains no Rubber.

Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages, containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

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SEA-TANGLE TENTS

(LAMINARIA DIGITATA)

For dilating the OS and CERVIX UTERI.

Introduced by SIR JAMES SIMPSON, M.D.

SPECIAL ADVANTAGES.

Firstly—They are cheaper in price than Sponge Tents.
Secondly—More easy of introduction.
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Lecture by PROF. SIMPSON, "Tangle Tents," at the Obstetrical Society of Edinburgh.—See Edinburgh Medical Journal for July 1864.

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FLAT-BOTTOM TUBES

GLASS TUBING
MEDICAL & CHEMICAL GLASSWARE
Wholesale Quantities Only Supplied.

AIR CUSHIONS.

Fig. 1194.

BRITISH MAKE.

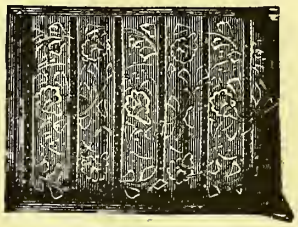

Fig. 1354.

Fig. 1194.—The **"EMPIRE,"** red India-rubber Air Cushion—

Diameter	14	15	16	17	18	19	20 in.
Each ...	**7 0**	**8 0**	**9 0**	**10 0**	**11 0**	**12 6**	**14 0**

Fig. 1354.—Air Cushion, sateen covered, reeded ... ... Sizes 14×10 | 15×12 | 18×14 in.
Each **4 6** | **5 0** | **6 6**

Special Line.—Khaki-covered Pillow, 17×12 in., in khaki case, with clasp ... ...each **5 0**
" " " " " super quality ... ... " **6 6**

5% discount allowed for prompt cash off above prices.

We are the right House for BRITISH-MADE GOODS—Anti-Rheumatic Rings, Bandages, Belts, Catheters, Clinical Thermometers, Combs, Enemas, Elastic Hosiery, Hot Water Bottles, Pessaries (Quinine), Splints, Tooth Brushes, Trusses, Water and Air Beds, Water and Air Cushions, Waterproof Sheeting, and every description of Rubber and Vulcanite Goods.

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Wholesale & Export Druggist,
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YOU MUST ADOPT SCIENTIFIC METHODS

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THE ABBE REFRACTOMETER

is a valuable aid towards **maintaining uniform strength in pharmaceutical products** (solutions, syrups, etc.), and much quicker than taking the dried weights or specific gravities.

Delivery in four weeks from receipt of order.

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SOLUBLE QUININE PESSARIES.

THE WORLD-WIDE REPUTATION that these Pessaries have obtained since their invention by W. J. Rendell in 1885 has induced unscrupulous persons to place upon the market worthless and injurious compounds, with colourable imitations of W. J. Rendell's labels. To distinguish the genuine Pessaries from these fraudulent concoctions, see that the Registered Trade Mark and Number, in ***RED INK***, are upon each box thus:

Registered Trade Mark, without which none are genuine. No. 182,688.

W. J. Rendell

No. 182,688

Registered also in Australia, India, The Cape, The Argentine, Germany, &c.

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Several injunctions in the High Court of Justice having already been obtained (reports of which have appeared in "THE CHEMIST AND DRUGGIST"), W. J. RENDELL'S SOLICITORS are instructed to take proceedings against all persons (Makers or Vendors) fraudulently using the name of "W. J. RENDELL," "RENDELL," or any colourable imitation thereof in connection with Pessaries NOT manufactured by

W. J. RENDELL,

INVENTOR AND SOLE MAKER,

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ALL WHO SEEK A LINE OF
EXTRA QUALITY, FINEST VALUE AND BEST BUSINESS
CAN FIND EXACTLY WHAT THEY ARE LOOKING FOR IN THE FAR-FAMED

OYLERS

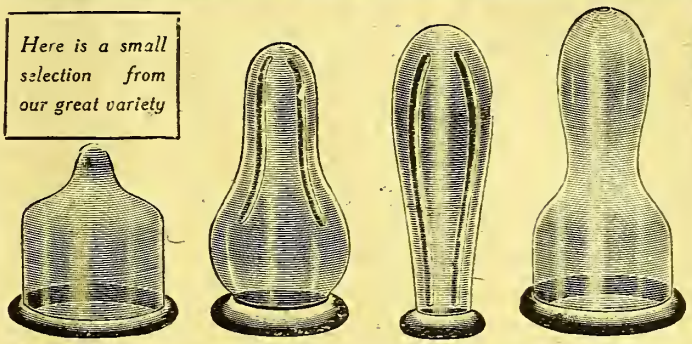
SEAMLESS RUBBER
TRANSPARENT TEATS

It will Pay you to write us and get our full details, Prices and Samples. No matter whether you are Sundriesman, Shipper, Wholesaler, Retailer or maker-up of Baby Soothers or Feeding Bottles, this line is full of merits that will bring you most satisfactory Trade

Teats made from highest grade Ceylon Rubber, toughest, most supple, transparent and durable.

ALWAYS GROWING IN DEMAND BECAUSE MOST HYGIENIC, BEST FOR BABY'S HEALTH, EASIEST TO CLEAN AND STERILISE, BEST UNDER ALL TESTS, INCLUDING BOILING, STAND ALL CLIMATES, BEST FOR BOTH HOME AND EXPORT TRADE.

Here is a small selection from our great variety



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Seasonable Winter Goods

The 'FASTNET' Series

Chest Jackets.
Sizes Nos. 3-8.

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HOT WATER BOTTLES (A'l Sizes) (Red)
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AIR CUSHIONS
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The following paragraph by a Medical Officer, LOCAL GOVERNMENT BOARD, appeared in THE TIMES of February 22, 1919.

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From the above it is evident that the infection of Influenza can be checked and guarded against by the use of the Florozon Inhaler. The fumes therefrom sterilise perfectly mouth and nose where, it is acknowledged, the infection lies. The Florozon Inhaler and its various medicaments may be therefore considered a safeguard and preventive from Influenza.

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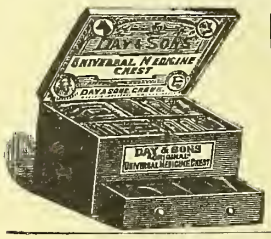

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THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, MARCH 15, 1919.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after first post on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done **PROVIDED the MONEY is TELEGRAPHED** at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C.4. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus, Cannon, London." (Three words counted as two.)

EARLIER CLOSING FOR PRESS.

WILL intending Advertisers please note that until further notice all Advertisements for THE CHEMIST AND DRUGGIST SUPPLEMENT must be in the Publisher's hands not later than

FIRST POST THURSDAY MORNING,

to be available for the issue published in that particular week. Owing to restricted postal deliveries it is advisable to *post* all communications on the Tuesday preceding the date of issue. Advertisements received after the time indicated will be inserted in the following week's issue.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, S.E. (Distant Suburb).—Good-class Retail and Dispensing Business, capitally situate in centre of town; returns upwards of £3,000; *gross profit over* £1,200; double-fronted shop with residence; held on lease; price £1,900.

2.—LONDON, S.W.—Cash Retail Business; present hands about 20 years; returns £2,000; *net profit* £650; stock and fixtures are estimated at £875; no N.H.I.; price £875.

3.—LONDON, W.—Good-class Business, Dispensing and Retail, situate in centre of excellent residential locality; returns about £900; *gross profit* 50 per cent.; well-appointed shop; large residence; held on lease; to effect a speedy transfer no reasonable offer will be refused; must be sold.

4.—LONDON, N.W. (Main Road).—Good-class Business; Retail and Dispensing; *net profit* £600; well-appointed shop, nicely fitted and fully stocked; valuation terms would be considered, or lump sum offer.

5.—LONDON, W.—General Retail, with some Dispensing and considerable Photographic; no N.H.I.; returns show a steady increase, last year's turnover being between £1,350 and £1,400; *gross profit* 42½ per cent.; lock-up shop; no immediate opposition; good scope for increase; also Dentistry or Optics; terms, £100 and valuation of stock and fixtures.

6.—DALSTON (Near).—Ready-money Business; corner position in shopping thoroughfare; returns, under Assistant, £17 weekly; ample scope for extension; rent £60; sub-let £85; held on lease; price £300.

7.—VICTORIA PARK (Near).—Ready-money Business, producing a *net profit of* £600 *yearly*; rent £38, including residence and stabling; lease if desired; no near opposition; price £800.

8.—LINCS.—Busy market town; Mixed Business, with good Optical connection; returns last year £8,400; *average net profit for three years* £1,147 *yearly*; commodious premises; vendor's own property; terms, valuation of stock and fixtures, plus premium for goodwill to be agreed.

9.—STAFFS.—Ready-money Retail, with N.H.I. Dispensing; established many years; returns last year £2,456; full investigation invited; rent £30; offer wanted.

10.—WESTERN COUNTY (Health Resort).—Good-class Business for disposal through death; returns between £1,200 and £1,300, with scope for extension; well-fitted shop and large residence; rent £55; for an immediate sale, less than the value of stock and fixtures will be accepted.

11.—KENT.—Unopposed Business, comprising good-class Family trade with general country Retail; returns average £1,200 per annum; *net profit approximately* £300; comfortable residence; rent £40; held on lease; price £600.

12.—EPPING FOREST (Near).—Ready-money Business, with excellent sale for own Proprietaries; returns, present rate, about £1,500 yearly at good prices; rent £25; lease 40 years; no near opposition; price £500.

13.—MIDLANDS (Large Manufacturing Town).—Old-established Business; Retail and Wholesale in packed goods; gross receipts exceed £8,000, and during the past three years the average gross profit amounted to £2,031; the premises are held on long lease at a rental of £60; price about £3,000; a banker's reference will facilitate business.

14.—N.W. COAST (Popular Health Resort).—Ready-money Business; capital situation; returns £2,700; *net profit* £900; turnover might be materially extended under qualified management; price £2,500.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

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Transfer Agents & Valuers,

73 LAUREL ROAD, LEICESTER.

£2,700 RETURNS. MIDLANDS.—General Light Retail, doing a well-established trade; in present hands over 20 years; now retiring; heavily stocked; purchase about £2,600.

£1,150 RETURNS. LONDON, S.E.—Light Retail, with appointment worth over £100 per annum; good position and house at low rental; price £675.

£1,300 RETURNS. LANC.—General profitable Retail; present hands many years; good Proprietaries; price £900; net profit £375.

£3,000 RETURNS OVER LAST YEAR. NORTH-WEST.—Good general light-class Retail with a few side lines; double-fronted shop; good house; low rent; will grant lease; price £1,200.

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35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 Central.

NO CHARGE TO PURCHASERS.

1.—MIDLANDS.—Sound progressive Cash Retail in healthy and growing locality; returns over £2,100; *net profit* £750; handsome modern-fitted Pharmacy; fine position; well stocked; modern built premises; low rent; owner retiring; price £1,500; only cash buyers entertained.

2.—ESSEX COAST.—Select Retail Dispensing and Photographic Business in best position; returns last year £1,370; *net profit* £422; pre-war returns £1,800; good house and Pharmacy; price £100 and valuation; in all about £850; personally recommended.

3.—SURREY (Suburb).—Good-class Retail and Dispensing Business in good position; returns £1,800; *net profit nearly* £450; books well kept; very convenient house; price about £900.

4.—MIDLANDS (Busy Industrial Town).—Genuine Cash Retail and Prescribing Business; returns £1,280 under Manager; *net profit* £350; plenty of scope; low rent; small house; fine modern-fitted shop, fully stocked; death cause of sale; price £500; strongly recommended.

5.—NOTTS.—Old-established Cash Retail; returns average £50 weekly; handsomely fitted Pharmacy and well stocked; low rent; on lease; price simply valuation, between £500 and £600.

6.—LONDON, N.—Light Family Retail and Dispensing, with good Optical connection; returns £1,400, increasing; *net profit about* £400; well fitted and stocked; small house; price £750, or near offer; recommended.

7.—LONDON, S.W. (10 Miles Out).—Good-class Drug Store; returns average £25 weekly; qualified man would do much more; large house, etc.; illness sole cause of sale; price £250.

8.—LONDON (Essex Suburb).—Profitable light middle-class Cash Retail; practically unopposed; returns over £1,000; *net profit* £436; books properly kept; well fitted and fully stocked; price £500.

9.—LONDON, S.E.—Light Cash Retail, under Manager; returns £520; profits half; plenty of scope; lock-up shop; low rent; price £150.

BUSINESSES WANTED.

We are in immediate want of sound concerns, returning up to £3,000, in town or country, especially South Coast, Midlands, and North; cash buyers waiting. Intending vendors are cordially invited to correspond. Terms sent on application. Established 1870.

TO LET.

A LARGE Room over Chemist's shop (central) to Let, with two workrooms, also lavatory accommodation; admirably adapted for Dentists, Masseuses, Chiropodists, or all three combined; under proper control would work very successfully. Apply 52/14, Office of this Paper.

TO Let, Lock-up Shop; splendid opening for a high-class business in the best residential part of Southport. Apply 38, Park Road, Southport.

THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS, AND EXPERT STOCKTAKERS,
45a MARKET STREET, MANCHESTER.
Established over Half a Century.
Telegraphic Address: "Tomtom."

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

KENT.—Very old-established country business, Family Retail with Prescribing; returns exceed £1,200; easy hours; good house and shop, on lease; healthy situation; suit gentleman wishing to recuperate and combine business; full particulars to genuine buyer; investigation invited and introduction given. Apply 42/31, Office of this Paper.

LONDON.—Retail and Dispensing Business, doing slightly over £1,300 per year; cash sales £733, N.H.I. Dispensing £582; expenses low; rent £60; closed 1 o'clock Thursdays; no Sunday trade; business hours 9 till 8; price £685. Apply 54/8, Office of this Paper.

LONDON, E.—Drug Stores; owner retiring; takings £500 yearly; capable of increase; rent 16*s.*; large house and garden; price £150 inclusive. Apply 45/27, Office of this Paper.

LONDON, E.—A bargain; advertiser wishes to dispose of profitable Business, doing £110 monthly, together with shop and house and warehouse, also dwelling-house adjoining (let at 16*s.* weekly); leasehold, eight years to run at ground rent of £3 3*s.* per annum; £750 for the lot. Apply 56/29, Office of this Paper.

LONDON, N.—Pharmacist's Business; in present hands over 40 years; owner retiring; returns £2,000; Insurance prescriptions 12,000 annually; business steadily increasing; good profits; money-making concern to energetic man; every facility for fullest investigation; main busy thoroughfare in densely populated working-class neighbourhood; shop and house freehold property of vendor; might be sold, or rental £55 on repairing lease. Apply "V." (38/37), Office of this Paper.

LONDON, S.E.—A good ready-money Business in medium-class district making a net profit of £588 a year and increasing; the position and prospective are both good; held many years; satisfactory reasons for disposal; price £600; any gentleman with this capital would find it worth attention. Apply 51/23, Office of this Paper.

MANCHESTER.—Old-established, double-fronted large Shop on main road; splendidly fitted; Mixed Retail, Prescribing, with N.H.I. Dispensing; for sale privately, owing to ill-health. Full particulars, 55/5, Office of this Paper.

MIDLANDS.—Dispensing Business for sale; returns about £2,000; rent £60; well stocked; labour difficulty cause of disposal; no agents; references required and given. Apply "D. M. M." (42/38), Office of this Paper.

SHEFFIELD.—Death Vacancy.—A first-class Business in best suburbs; good Dispensing and Family trade; in late owner's hands for over twenty years. Apply Dr. Hargreaves, Longfield, Boston Spa, Yorks.

YORKSHIRE.—A good all-round Retail Business for disposal; average returns over £2,500; proprietor wishes to retire; population over 80,000; excellent business and residential premises built by a previous chemist; a desirable opportunity. Apply A. B. C., c/o Raimes & Co., York.

A LIGHT Retail Pharmacy and a well-stocked corner Shop in an excellent position, with plenty of scope for good-class Dispensing; house attached; low rent, and free from debt; price £130; a safe, sound investment for one or more young qualified or unqualified persons. Williams, Pharmacist, 14 Penn Road, Wolverhampton.

A PROFITABLE Prescribing Business for sale (Midlands); takings about £1,000 annually; splendid opportunity for energetic man to further increase business; price £450 cash; owner commencing in the Wholesale manufacture of Proprietaries. For further particulars apply, in the first instance, to "H.," c/o Bayley, 87 Horseley Heath, Tipton, Staffs.

BUSINESSES FOR DISPOSAL (*continued*).

A UNIQUE opportunity to acquire an old-established Business; no near opposition; owner giving up the trade; stock and fixtures, goodwill, £150. Apply 52/16, Office of this Paper.

CHEMIST'S and Druggist's, etc., Mixed Business for sale in Llanymynech, Salop; good agricultural district. Tilsley, Llanymynech.

IMMEDIATELY, good old-established Chemist's Business, centre of small market town in South of England; returns 1918 £1,660, gross profit 40 per cent., proof given; owner retiring from this business. Genuine buyers please state offers to Mr. Frost, Chemist, Romsey, Hampshire.

SMALL Pharmacy, country village, in Kent; returns £400 to £500; rent £19 19*s.*; taxes, etc., about £7; very low price would be accepted owing to illness of present manager; price £120 for cash, stock and fittings, etc.; no reasonable offer refused for an immediate sale; further particulars and chartered accountants' figures and full particulars can be given; good garden; suitable for old retired man or young man without much capital; easily worked. Harmer, Pharmacist, Eastbourne.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond prepaid.

ISLE OF WIGHT OR SOUTH OF ENGLAND.—Small Chemist's Business, with house and good garden attached; net profit not under £200; price about £300. "Cash" (49/30), Office of this Paper.

LONDON or HOME COUNTIES.—Light Retail in good working-class district; shop must be roomy and in or near shopping centre; price not over £600. "Prompt" (33/180), Office of this Paper.

ADVERTISER (unregistered) requires Drug Stores on or quite near coast, within easy reach of London (or London would be considered); decent house; please give full particulars. Apply 55/12, Office of this Paper.

DRUG Stores required on easy terms, in or near London, with scope for increase. All particulars in strictest confidence to "Energy" (55/11), Office of this Paper.

MEDIUM-SIZE Business required about June for cash; healthy, quiet neighbourhood; lock-up shop entertained, or shop with house and good garden; West of England preferred, not essential. Particulars in confidence 51/34, Office of this Paper.

PHARMACY or Drug Stores wanted in busy main market thoroughfare in good working-class district; capable of increase; no objection to neglected business if position is good. Full particulars in strict confidence, "Statim" (53/12), Office of this Paper.

WANTED, Drug Stores, genuine going concern, in shopping or market thoroughfare, with living accommodation, yard, or small garden, nature of soil. Full particulars in confidence to "Dora" (53/7), Office of this Paper.

WANTED, a good-class Dispensing and Light Retail Business with plenty of scope for improvement; turnover not less than £2,000; good house attached; must bear strictest investigation. Apply 53/23, Office of this Paper.

WANTED, a Drug Stores, or a Mixed Business with Stationery, in a decent, thickly populated neighbourhood, with a comfortable modern house, having bathroom, etc.; cash ready. Please send full particulars in strict confidence to 53/22, Office of this Paper.

WANTED, a good medium-class Business, with scope for increase; must bear the strictest investigation; small residence desirable; Managership, with a view to early succession, would be entertained. Reply in confidence, giving full particulars, to "H. E. K." (56/30), Office of this Paper.

WANTED, Drug Store; good modern house essential; must be living for married man; takings £18 to £20 per week; sea-side or country, not South; good deposit for sound business; would entertain business touching other lines; strictest confidence. "Velox" (55/21), Office of this Paper.

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DUBLIN CITY firm, old-established connection amongst Wholesale trade, at present representing leading Manufacturers, highest references, open to undertake Agency for Ireland for first-class house. Apply 45/29, Office of this Paper.

EGYPT, SYRIA, AND PALESTINE.—London house, with offices in Cairo, sending principal from Cairo to Palestine, with the view of opening a permanent office, is open to entertain the sole representation for Drugs, Chemicals, Patents, Toilet preparations, Sundries, etc.; connected with largest buyers on the other side; best references. Write 12/12, Office of this Paper.

NEAR EAST.—The Foreign Representative of a leading Drug House seeks additional representation of first-class Druggists' Sundries and Perfumery Houses. "Expert" (37/2), Office of this Paper.

PORTUGAL.—Well-established firm at Lisbon with very good connection among dealers in Chemicals and Drug products desires to represent first-class houses manufacturing Ink Powders, Chemical Colours, and Chemical Products generally, for all industries; successful results guaranteed; good references. Address 17/15, Office of this Paper.

SOUTH AFRICAN AGENCY.—Established Company, with large connection throughout South Africa and Rhodesia, and having depôt at Cape Town, will entertain proposals for an Agency, preferably a Proprietary line. Reply to 72/2, Office of this Paper.

THE NEAR EAST.—Experienced Traveller, having an intimate acquaintance with the trade, traders, and languages of the Near East, seeks the sole Agency of a high-class Drug and Sundries house capable of meeting the demands of reconstructed trade of Egypt, Syria, Palestine, Greece, and Turkey. "Pioneer" (33/187), Office of this Paper.

B. G. JACK & CO., an established firm, are open to represent Manufacturers of Proprietaries and Pharmaceutical preparations in India, Burma, and Ceylon; references, the National Bank of India, Ltd., Bombay; head office, Victoria Building, Fort, Bombay.

FIRM of Paint Manufacturers, making several good lines for the spring cleaning trade, would like to hear from Travellers who desire to handle these goods on commission; see advertisement in this issue. Texalo Manufacturing Co., Trafalgar Square, Blackpool.

FRUIT ESSENCE.—Firm with best connections for sale of essence for drop-manufacturers in Denmark, wants connection with factory in the above line (concentrated essences or others). E. Meyer & Co., St. Marcus Sidealle 2, Copenhagen V.

ONE of the oldest established Essential Oil distillers and importers in London would like to hear from one or two gentlemen able to influence business with Wholesale buyers in the United Kingdom; liberal terms offered. Write 73/23, Office of this Paper.

TECHNICAL CHEMICALS.—Well-introduced firm wants to represent in Denmark firms in these line. E. Meyer & Co., St. Marcus Sidealle 2, Copenhagen V.

LEGAL.

FREDERICK BIRTWELL BENNETT, DECEASED.

WE, the undersigned, Jane Bennett, of Park End Road, Workington, widow, and John Burchell, of No. 1 Lorne Villas, Workington, Executors of the will of Frederick Birtwell Bennett, late of No. 37 King Street, Whitehaven, hereby give notice that as from the first day of March instant the business of the deceased as a Pharmaceutical Chemist and Optician has been sold to Mr. Francis Arthur Clayton, and that the said Executors will not be responsible for any debts in respect of the said business contracted after the said first day of March instant.

Dated this 1st day of March, one thousand nine hundred and nineteen.

JANE BENNETT
J. BURCHELL.

PARTNERSHIPS.

MANUFACTURING.—Excellent Premises available for man desirous of so developing; preferably treat with Chemist willing to join advertiser; business now Retail with small Wholesale providing good nucleus for extension. "North-East" (51/21), Office of this Paper.

TENDERS.

GUY'S HOSPITAL, S.E.

THE House Committee invite Tenders for a three months' supply of Drugs and Chemicals for prompt delivery; cash in 14 days. Forms of Tender may be obtained on application to the Superintendent's Office.

FOR SALE.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

ELECTROLYSIS.—High-class practice in northern city for sale; excellent connection; premium £1,000, less than two years' income; exceptional opportunity for two friends or lady and assistant. Write for interview to 55/33, Office of this Paper.

FOR Sale, about 100 N.M. and W.M. stoppered Shop Rounds, labelled, second-hand, 10 oz. to 30 oz. What offers the lot, carriage forward? Apply 46/3, Office of this Paper.

FOR Sale, quantity of Drug Bottles, Dispensing Fittings, Mahogany Counter, sets of Drawers, Forms, Chairs, Couch, Table; will be sold either in one lot or in parts; may be seen any day before 12 or after 6. John McKinna, Paddington Dispensary, 104 Star Street, Edgware Road, W. 2.

FOR Sale, entire fittings; Counters, Cases, Shop Rounds, etc., and Window Enclosures of a Chemist's Shop within 30 miles of London; may be seen by appointment. Write 55/13, Office of this Paper.

LOZENGE Mixer, very strong, non-rusting, about 350 lb., fitted for power; new condition. Apply 55/2, Office of this Paper.

MAHOGANY Showcase, 4 feet by 2 feet by 7½ inches, 4 sliding trays, top glass quadrant curved. Cheers & Hopley, Pharmacists, Chester.

MIXER; very strong machine: heavy double blade, reversing gear, friction pulley drive: fine order; size of mixing pan, 3 ft. 4 in. long, 2 ft. 10 in. wide by 3 ft. deep. Apply 55/200, Office of this Paper.

MIXERS, two small hand power, by Richmond & Chandler; first-class order: capacity about 80 and 40 lb. respectively; also Dry Powder Mixer, capacity 300 lb. Apply 55/201, Office of this Paper.

MIXER: "Werner"; little used; friction pulley drive, counterbalance weight tilting arrangement; size of mixing bowl, 33 in. by 24 in. by 24 in. Apply 55/202, Office of this Paper.

SUGAR of Milk: one barrel (2 cwt.), U.S.A., 2*s.* 6*d.* per lb. C. H. G., 154 Fulham Palace Road, W. 6.

THE entire Fittings of a Chemist's business, including Counters, Showcases, Carboys, Shop Rounds, Ointment Jars, etc.; in part or complete; may be viewed at any time between now and March 20th. Apply Oliver, Gabriels Hill, Maidstone.

TWO copper-jacketed Pans, gas heated, 2 ft. 1 in. and 2 ft. 7 in. diameter; also Copper Still and Condenser, 12 gallon. Apply 49/29, Office of this Paper.

7 WINCHESTERS Inf. Senegæ Conc., i. to vii., at 4*s.* 6*d.* lb.; one W. carriage paid for 23*s.* 3*d.*; cash with order. John Noble, Pharmacist, 17 Owens Row, London, E.C. 1.

APPRENTICESHIPS.

APPRENTICE (outdoors) wanted by Yorkshire, West Riding, Pharmacist: exceptional opportunities given. Apply 45/28, Office of this Paper.

APPRENTICE, tall youth, aged 16, passed Preliminary: within 50 miles of London; premium if required. Apply, with full particulars, to "Alpha" (51/31), Office of this Paper.

REQUIRED (at once), four Apprentices, to learn the Perfumery trade; good opportunity for smart girls. "A. F. A." Chemical Co., Ltd., 19 Hand Court, High Holborn, W.C.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

RETAIL.

ABERDOVEY, NORTH WALES.—Wanted, a qualified Manager for a Light Retail and Dispensing business; house attached; permanency; undeniable references essential. Apply, with full particulars as to experience, salary, etc., to Lloyd, 267 King's Road, Chelsea, S.W. 3.

BATH.—Assistant with good Pharmacy experience; must be a quick and accurate Dispenser. Davies & John, 15 Old Bond Street.

BIRMINGHAM.—Assistant, unqualified, with high-class experience; must be well informed and of gentlemanly deportment; liberal salary to suitable man. Apply, with full particulars, to General Manager, Hedges (Chemists), Ltd., Dale End, Birmingham.

BOLTON.—Assistant; qualified; accustomed to Manage; good Counterman and Prescriber; permanent; outdoors; half-holiday and no Sunday duty. State age, married or single, experience, references, and salary required (enclose photo if possible, to be returned), Charles Crane, Ltd., Chemists and Opticians, Bolton, Lancs.

BOURNEMOUTH.—G. E. Bridge & Co., Ltd., require a Junior Assistant; unqualified; outdoors. Apply to W. E. Curtis, 128 Old Christchurch Road, Bournemouth.

BOURNEMOUTH.—Junior Assistant or Improver required, chiefly for Dispensing, in good-class Retail and Dispensing business. Apply, giving full particulars of experience, salary (outdoors), when disengaged, etc., to W. Jones, Pharmaceutical Chemist, Bournemouth.

BRIGHTON (outdoors).—J. Colby & Co., 101 Western Road, require a competent male Assistant well practised in Dispensing and Counter work. Applicants asked to apply by letter only, and state in first letter age, height, salary required, and where experience has been gained; also to enclose photo if possible.

BRISTOL.—Wanted, gentlemanly Assistant; not over 35; must be good Counterman, Dispenser, and used to Photographic trade. State age, height, experience, salary required, to Hawker, 129 Gloucester Road, Bristol.

BECKENHAM, KENT.—Assistant wanted. Apply, giving full particulars of salary required, references, etc., to Mr. Wallace, M.P.S., 9 High Street, Beckenham, Kent.

CARDIFF.—Vacancy for Dispenser; salary £3 (outdoors). State full particulars and references, Duck, Chemist, Cardiff.

CARDIFF.—Wanted for Cardiff, by March 31st, Improver or Junior Assistant; outdoors; knowledge of Photography an advantage. Apply, Robinson, 24 Northbrook Road, Leeson Park, Dublin.

DARLINGTON.—Assistant or Manager required; abstainer preferred; age about 35. Apply, with full particulars, to Waters, Chemist, Darlington.

EASTBOURNE.—Reliable unqualified Assistant required for good-class Dispensing and Retail; must be good Dispenser and Salesman; no N.H.I.; outdoors; good hours. Salary and recent references to Harmer, Pharmacist, Eastbourne.

EAST KENT.—Wanted, young unqualified Assistant, gentleman or lady, for good-class Retail business with Dispensing; outdoors: short hours, or time for study could be arranged. Full particulars to "Stour" (56/37), Office of this Paper.

GRIMSBY.—Capable, qualified Assistant (lady or gentleman); capable of taking charge. Apply, giving full particulars, age, height, experience, and salary required, to Moores (Chemists), Ltd., Grimsby.

GRIMSBY.—Wanted, smart Junior for high-class Drug Stores. Please state age, salary required, and references to Geo. W. Cooling, 103 Victoria Street, Grimsby.

EICESTER.—Unqualified Assistant required; permanency; applicants must have had good Dispensing experience. Leicester" (51/383), Office of this Paper.

IVERPOOL.—£6 per week, with prospect of advance, and 10s. for alternate Sunday duty (four hours), offered to competent inor man willing to take charge of Dispensary, to do the work ccurately and neatly, and assist at Counter as required; must e a worker; several Assistants employed. Particulars to E. rebble, Chemist, 187 Kensington, Liverpool.

IVERPOOL.—Smart unqualified Assistant for City business; Dispensing and Counter. Usual particulars and when disgaged to "Quinine," c/o Evans Sons Lesoher & Webb, Ltd., verpool.

ONDON.—Wanted, a smart qualified Assistant to manage shop; good wages to suitable man. Apply, with full particulars, 56/17, Office of this Paper.

ONDON, E.—Good Junior Assistant required for business in working-class neighbourhood; excellent prospects. State lary required, "B. R." (51/384), Office of this Paper.

ONDON, N.—Wanted, an Assistant with good all-round experience for a middle-class Retail with N.H.I. Dispensing. ply, with full particulars of experience, names of references, en disengaged, and salary required (in- or out-doors), Chemist," 300 Amhurst Road, Stoke Newington, N. 16.

ONDON, N.—Junior or Improver (outdoors), with knowledge of Dispensing, for quick Cash Retail and Dispensing business. ite full particulars or call "H.," 35 Junction Road, N. 19.

ONDON, N.E.—Junior Assistant required; outdoors. Apply, stating salary and usual particulars, "T. T." (55/27), ce of this Paper.

ONDON, N.W.—Wanted, a capable Assistant; one accustomed to a high-class Dispensing and Retail business. Apply, stating particulars and salary required, to W. J. Dalby, 6 Canfield rdens, N.W. 6.

ONDON, N.W.—Comfortable berth for qualified Assistant; age 50-60; active and capable; permanency. State salary reed, "K. R." (51/381), Office of this Paper.

ONDON, N.E.—Unqualified Assistant (outdoors) for suburban Retail business. Give usual particulars as to age, experience, salary expected to Matthews & Son, Chemists, 722 High d, Leytonstone.

ONDON, S.E.—Assistant (outdoors), no Sunday duty, for Dispensing and Retail business; must be quick, reliable, and Counterman. Apply, stating age, experience, and salary ired, Brooks' Drug Stores, Broadway, Deptford.

ONDON, S.E.—Wanted, a Senior Assistant; outdoors; permanency; also an experienced Dispenser; good references. ly, stating full particulars, age, experience, salary required, 32, Office of this Paper.

ONDON, S.W.—Qualified Assistant wanted (at once); Light Retail and Dispensing. Apply, stating salary and full pars, to P. C. Baker, Ph.C., 174 Victoria Street, S.W.

ONDON, S.W.—Qualified Manager, and Assistant, also qualified, young preferred. Please state salary and usual particulars W. Bennison, Pharmaceutical Chemist, 133 King's Road, sea, S.W. 3.

ONDON, W.—Junior for Cash Retail and Dispensing; one other Assistant kept. State age, experience, and salary red, to Shirtliff, 66 Goldhawk Road, Shepherd's Bush, W. 12.

ONDON, W. 10.—Junior Assistant (lady or gentleman) wanted for good-class Dispensing and Retail business; usual hours, unday duty. Apply, with particulars and salary required oors), J. R. Faulkner & Co., 173 Ladbroke Grove.

ONDON, W.—Wanted, capable Junior Assistant (male) with good Dispensing experience; outdoors; hours 8.30 a.m. to n., two nights weekly at 9 p.m., Saturdays 1 p.m., Sunday (one in three) 10 a.m. to 1 p.m. and 6 p.m. to 8 p.m. , stating experience and salary required, to J. G. Gould , 23 North Audley Street.

LONDON, W.—Wanted, an Assistant (M.) with good Dispensing experience; outdoors; 23-40. Apply to W. F. Pasmore, 320 Regent Street, W. 1.

LONDON, W. 1.—Wanted (immediately), an experienced and capable Assistant. Apply personally, or by letter, to J. Munro & Co., 273 Regent Street.

MALVERN.—Assistant, with some experience in Dispensing and Counter work. Please state full particulars and salary required (outdoors), to A. Mander, The Belle Vue Pharmacy, Malvern.

MANCHESTER.—Mottershead & Co., 7 Exchange Street, require a qualified Dispenser with good Dispensing experience. Replies, with full particulars as to age, experience, and salary expected, to be directed to Mr. Blackburn.

MANCHESTER.—Qualified Assistant wanted at once; used to N.H.I. Dispensing. All particulars to "Capsican," o/o John Quilliam & Co., Ltd., Canterbury Works, Victoria Bridge, Manchester.

MANCHESTER.—Unqualified Assistant, mainly for Counter work, in high-class Pharmacy; one with highest class experience preferred. State full particulars and salary required, Westmacott & Son, 17 Market Street.

MANCHESTER DISTRICT.—Junior Assistant (outdoors), not over 25, required for high-class Dispensing business; salary £2 10s. Address full particulars of experience, references, etc. (enclosing photo to be returned), to T. Woodruff, Pharmacist, Cheadle, Manchester.

MANCHESTER DISTRICT.—Good pay to energetic man; qualified; N.H.I. and Counter; capable of managing when required. State age, experience, married or single, references and salary, photo (no Sunday duty and half-day, live out), 55/28, Office of this Paper.

MANCHESTER.—Situation open, which will suit elderly Chemist or Manager; working Assistants kept; easy berth; easy hours. Give full details, with salary, etc., to "Gentian," o/o Heath Bros., Blackfriars, Manchester.

MIDLANDS.—Elderly qualified Assistant required; permanent and comfortable position. State salary required and when at liberty, 51/380, Office of this Paper.

MIDLANDS.—Qualified Manager required for large business situate in the centre of a progressive town; must be capable and energetic, and be anxious to go ahead; good salary, and a liberal interest in the profits offered to the right man. State age, whether married, and when at liberty, "N." (51/382), Office of this Paper.

NORTHAMPTON.—First-class Dispenser required; no panel work; outdoors. Apply, stating salary required and usual particulars, to McKinnell, Chemist, Northampton.

NOTTS.—Unqualified Assistant for Light Retail and Photographic trade; state full particulars. Apply "Midland" (51/20), Office of this Paper.

OXFORD.—Qualified Assistant wanted for good-class Light Retail and Dispensing. Apply with usual particulars, salary required, etc., to J. Burbank, 116 Walton Street, Oxford.

SANDOWN, ISLE OF WIGHT.—Wanted, smart unqualified Assistant, with good Dispensing experience, for high-class Pharmacy; easy hours. State age, salary required (outdoors or indoors), etc., to Woollings, Chemists, Sandown, Isle of Wight.

SHEFFIELD.—Messrs. G. T. W. Newsholme, Ltd., 27 High Street, Sheffield, require qualified Assistant with good experience. Address applications, giving full particulars, salary required, and references, to Mr. Austen.

SHERINGHAM.—Assistant wanted (April 1st); outdoors. Apply, stating age, salary, and full particulars, to J. B. Gooch, W. H. Burrell & Co., High Street, Sheringham, Norfolk.

SOUTH OF ENGLAND.—Assistant required (male or female); free removal; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

SUNDERLAND.—Wanted, a qualified Assistant; N.H.I. work. State age, references, and wages, J. G. Harrison, Pharmacist, 91 Hylton Road, Millfield, Sunderland.

SWANAGE.—Reliable Assistant required for high-class Pharmacy, male or female, indoors or outdoors as desired, for Dispensing and some Counter work. Apply, with full particulars of experience and salary required, to Randall, Chemist, Swanage.

TENBY, S. WALES (English neighbourhood).—Unqualified Assistant; 27-35; outdoors; all-round experience; reasonable hours. Send references, salary, photograph, to Phillips, Chemist, Tenby.

THAMES VALLEY.—Wanted (immediately), smart lady Assistant; preferably with Hall qualification, chiefly Dispensing (no N.H.I.). Apply, with full particulars, to Mr. Clegg, Gould & Son, 1 Broad Street, Teddington, Middlesex.

WALSALL.—Competent Junior wanted: quick and accurate Dispenser. Apply, with full particulars if possible, enclosing photograph (to be returned), state salary required (outdoors), G. Elliott & Son, Pharmaceutical Chemists, Walsall.

WEST OF ENGLAND.—Manager for brisk branch, doing Light Retail and a little Dispensing; permanency; moderate hours; no Sunday duty; outdoors; qualified man preferred, but not essential. State usual particulars, with salary required, 83/49, Office of this Paper.

WESTGATE-ON-SEA.—Assistant, qualified (at once), for a few weeks, possible permanency; capable of taking charge; 30-40. Please give full particulars in first letter, Dixon, Chemist, Westgate-on-Sea.

WORCESTER.—A competent Assistant required; accustomed to good-class Dispensing business. State age, references, salary required, and say when disengaged, Anderson & Virgo, Chemists, Worcester.

YORKSHIRE, WEST RIDING, NEAR BRADFORD.—Elderly qualified Assistant required; comfortable berth; easy hours. State salary required and when at liberty, "L. M." (51/38), Office of this Paper.

A HIGH-CLASS departmental stores on the South Coast require an energetic Assistant to work up and increase its Chemistry department (no Dispensing); applicant must have highest references and be a good Counter and Window Dresser. Apply, in first instance, to 52/17, Office of this Paper.

ASSISTANT wanted (at once), unqualified, outdoors, for Retail and Dispensing; personal interview preferred. Austin, Pharmacist, Hounslow.

ASSISTANT wanted for Light Retail and Dispensing; outdoors. Apply, stating age, experience, and salary required, to T. Coleman, 81 Nightingale Lane, London, S.W. 12.

ASSISTANT, smart industrious all-round man, for Counter, Dispensing, Photographic, and Window-dressing; no Sunday or half-holiday duty. Brook, M.P.S., 155 Lavender Hill, S.W. 11.

ASSISTANT, unqualified, for Dispensing and Counter in brisk business; short hours, closing 7, Sundays and Thursday half-day free. State salary required and usual particulars to A. G. Wright, Chemist, Aylesbury.

ASSISTANT required (outdoors) for Family Dispensing business; must be competent Dispenser; qualification not essential; hours easy; attractive district; very little N.H.I. State age and experience, and give references and salary required, to J. W. Todd, 23 London Road, Camberley, Surrey.

ASSISTANT wanted (at once), qualification not necessary, for good-class country business; short hours (outdoors). State salary, references, etc., Whitewick, Chemist, 12 Church Street, Monmouth.

ASSISTANT (male) required for good-class Light Retail business; thorough experience in Dispensing essential. State full particulars as to references and salary to Cattell, High Street, Sutton Coldfield.

ASSISTANT, with good experience of Dispensing and general Retail, and practical knowledge of Photography; state salary required. Peirson, Pharmacist, New Brighton.

ASSISTANT; accustomed to good-class Retail and Dispensing. W. Pickard, 3 West Kensington Terrace, W. 14 (opposite West Kensington Station).

ASSISTANT wanted, unqualified (early April), for good-class Pharmacy in Kent; able to take charge of Dispensing Counter and supervise Window Dressing; hours reasonable; no extra duty. Please state salary required and usual particulars to 56/26, Office of this Paper.

ASSISTANT (unqualified) for a company shop, to help at Counter and Dispensing. Write, with full particulars, reference, and salary required to W. Bell, 67 High Street, North Finchley, N. 12.

ASSISTANT, unqualified, for quick Retail and N.H.I. Dispensing (outdoors). Apply, with references and salary required, to J. Patterson, 52 Ilford Lane, Ilford.

CAPABLE Assistant required (at once); must be good Window-dresser, reliable, and energetic for good-class country business. State age, height, experience, and salary required (outdoors) to Oliver, Chemist, Maidstone.

CHEMIST AND DRUGGIST.—Wanted, experienced Manager for Chemist and Drug Department; sales £90 per week; Dispensing for National Health Insurance; one Assistant and boy kept. Apply, by letter, stating age, experience, and salary required, enclosing two copies of testimonials, to Long Eaton Working Men's Co-operative Society, near Derby.

CURTIS & CO. have vacancy for qualified Dispenser; male. Apply W. J. Jameson, 48 Baker Street, Portman Square, W.

DEMOBILISED OR OTHERWISE.—Wanted now, for one of the busiest shops in the Midlands, a qualified man to assist in management under exceptional circumstances; good berth, and remuneration all right, but not a permanency; all replies treated quite confidentially. Please give full particulars to 83/13, Office of this Paper.

EXPERIENCED Assistant wanted for good-class Family and Dispensing business (capable of taking charge); outdoors; permanency. Apply, stating full particulars, age, experience, salary required, Bolton & Maclachlan, Chemists, Epsom.

FIRM of Doctors near London require temporary assistance with clerical work, prescriptions, etc. Apply 53/29, Office of this Paper.

JUNIOR Assistant wanted; good worker and reliable; no Sunday duty. Send full particulars, Hunter, Chemist, Wigan.

JUNIOR or Improver wanted (outdoors) for Light Retail and Dispensing; must be honest, industrious, and thoroughly reliable. State age, references, and salary required to J. A. Nurse, Pharmaceutical Chemist, High Street, Lowestoft.

JUNIOR Assistant Dispenser wanted (immediately); outdoors; must be well up. Please state salary required and last two years' reference, Ewbank Smith, 5 Norman Road, St. Leonards-on-Sea.

JUNIOR Assistant; quick accurate Dispenser; good Salesman; London, W. 9. State salary required, P. H. Hall, 13 Clifton Road, Maida Vale W.

JUNIOR or Improver (male) for good-class Dispensing business; short hours; indoors. State experience, references, height, and salary required in first letter (photo if possible), Williams & Smith, Horsham.

JUNIOR or Improver (lady or gentleman) wanted (March 31st). State all particulars, salary (outdoors), references, photo if possible, Willis, Pharmacist, Broadway Pharmacy, Cardiff.

LADY Assistant wanted (at once) for Perfumery and Toilet Counter; a good appearance and address, and previous experience in high-class trade essential. Apply S. F. Goss, Ltd., 134 Kensington High Street, W. 8.

LADY Dispenser required, holding Minor qualification, for Mildmay Mission Hospital, Austin Street, Bethnal Green, E. 2; in-patient and out-patient work; facilities for teaching allowed. Reply to Secretary, stating experience and salary required.

LIVE Manager; qualified; £4 10s. weekly and commission; live out; no Sunday duty, week-days 8, Saturdays 9 p.m.; Expeditionary Force, demobilised, preferred. Photo, references, and particulars to Rowcroft, Maidstone.

MANAGER required for Light Retail branch in Liverpool district; must be energetic and good Salesman; every encouragement given to a smart man. Please state salary, etc., 52/23, Office of this Paper.

MANAGER required for a progressive country business; large turnover; no heavy trade; suitable man can, if desired, have interest in same; energetic man can extend business; qualification not essential; hours short; remuneration satisfactory. "Midlands" (52/12), Office of this Paper.

MANAGER, qualified, for Light Retail, Dispensing, and Photographic business; hours 9-8, Wednesday 1 o'clock, no Sunday duty. Apply, stating age, height, salary required, and usual particulars (photo if possible), to C. E. Beveridge, 185 High Street, Gillingham, Kent.

MANAGER, qualified; experienced man able to push business; hours good; liberal terms to able man. Apply, with full particulars, to Hedges (Chemists), Ltd., Dale End, Birmingham.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist (male or female); easy hours; good and progressive salary, with excellent prospects; free removal.

OUTDOORS.—Wanted (immediately), reliable help to relieve proprietor; residential London suburb; capable porter kept; hours 9 to 7, Thursday 9 to 1, no Sunday or Bank Holiday duty. State salary required, qualification, and references in first application, Dodd's Dispensing Pharmacy, The Pavement, Dunsmure Road, N.

QUALIFIED, age immaterial, light hours, no labour, meals if required, closed Thursdays and Sundays, wanted immediately; state age; district N. 1. Apply 50/17, Office of this Paper.

QUALIFIED Assistant required (in April) for good-class business; must be gentlemanly, and used to good-class Dispensing; opportunity for early advancement to suitable applicant. Apply, giving height, experience, and salary asked, to H. Hocken, Pharmacist, Redhill.

QUALIFIED Assistant for old-established business. Send every particular to J. C. Lloyd, Pharmacist, Lewes.

QUALIFIED Assistant wanted for good-class county Dispensing and Retail; outdoors; good references. Apply, stating salary required and age, to 55/16, Office of this Paper.

QUALIFIED Dispenser (Minor) wanted for London, S.E. district: assist at Counter; capable and accurate. Apply, stating references, salary, and full particulars to "Chemist," 77 High Street, Croydon.

QUALIFIED Junior Assistant wanted for Dispensing business. Apply, with full particulars, to Davidson, 342 High Road, Brondesbury, N.W. 6.

QUALIFIED lady Assistant required for Counter and N.H.I., in colliery village, West Riding of Yorkshire. State full particulars, salary, etc., 52/19, Office of this Paper.

QUALIFIED Manager for good-class branch. Please state full particulars in first letter, T. A. Harrison, Pharmaceutical Chemist, Goodmayes, Ilford.

QUALIFIED Manager wanted for medium Retail and Photographic business; no Sunday work. Particulars and salary (outdoors) to Knight, 21 Merton Road, Wimbledon, S.W. 19.

QUALIFIED Manager, also unqualified Junior, required for branch Pharmacy in Birmingham; energetic and conscientious workers; house free. Apply, stating age, salary, and full particulars, to Hough, Chemist, Studley, Warwickshire.

RELIABLE qualified Assistant wanted for country Mixed business: healthy and pleasant district in East Yorkshire: prospect of succession to a suitable man. Apply "Radix," c/o Raimes & Co., York.

SAVORY & MOORE, LTD., require a competent Dispenser. Apply, with full particulars of experience and stating salary required, to Manager, 143 New Bond Street, W. 1.

SINGLE qualified man required for position giving plenty of scope for advancement. State age, salary required, and references, 51/385, Office of this Paper.

SMART, young, unqualified Dispenser for Chemist's business; must be quick, accurate, and altogether reliable; 51-hour week; comfortable berth; near London. Full particulars and salary required to 55/30, Office of this Paper.

SURGICAL INSTRUMENT BUSINESS.—Competent man for front shop; must know his work; good character indispensable. Write, stating age, experience, and wages expected, L562, Lee & Nightingale, Advt. Offices, Liverpool.

TEACHER required in School of Pharmacy in London; hours 10-5; duties light. State full particulars and salary required, 80/36, Office of this Paper.

TEMPORARY Assistance required in first-class Family and Dispensing business. State full particulars as to experience, age, references, salary required, and say when disengaged, G. A. Turner, 12 The Foregate, Worcester.

UNQUALIFIED Assistant wanted (at once); good Counterman essential. Applications, with full particulars as to experience, age, height, salary, and references, in first letter to H. Lawrence, Kenley, Surrey.

UNQUALIFIED man is offered management of good-class country business with considerable increasing turnover; the hours are short, work light; salary and commission; none but reliable and steady men need apply. "West" (52/120), Office of this Paper.

WANTED, Junior Assistant or Improver. State age, experience, salary required, Thomas, Chemist, 157 Cowbridge Road, Cardiff.

WANTED (at once) for high-class Dispensing business, no N.H.I., energetic and capable Junior; hours 8.30 a.m. to 7.30 p.m.; half-holiday weekly. State age, experience, references, and salary (outdoors), Eardley & Furnival, Pharmaceutical Chemists, Sheffield.

WANTED, an energetic qualified Assistant, about 30, single preferred, for a good-class Family and Dispensing business. Please apply, with usual particulars and salary required (outdoors), to Hitchman & Son, Gold Street, Kettering.

WANTED, a Junior Assistant; principally for Front Counter and Stock work. Apply, with full particulars (outdoors), to F. J. Gibson, Pharmacist, Wolverhampton.

WANTED, an Assistant for first-class Dispensing and Retail. Apply, stating usual particulars as to age, height, experience, salary required, to Balkwill & Co., 106 Old Town Street, Plymouth.

WANTED, an Assistant in a busy Retail and Dispensing business in the West End; must have good experience and the best of references; qualified preferred; the right man will find this a good and permanent situation; hours and salary to be arranged. Apply 56/6, Office of this Paper.

WANTED, good Junior (outdoors) for good-class Retail and Dispensing; must be industrious, and accustomed to quick Counter trade. State age, salary, etc., 56 Salisbury Road, Kilburn, N.W. 6.

WANTED, ladies with Dispensing experience for checking N.H.I. prescriptions. Apply "C. C. B.," Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, W.C. 1.

WANTED (at once) for a good-class Pharmacy, gentlemanly Assistant; single; must be trustworthy and reliable. Apply, stating age, height, salary required (outdoors), Tirrell, The Square, Hanley.

WANTED, unqualified Assistant (outdoors) for good-class Dispensing business; must have good appearance and address; good Counterman and Window Dresser, with good knowledge of Photographic trade; age about 29; no duty after closing at 7.30, and none on Sundays; usual half-holiday; permanency; £4 per week: good references essential. L. North, Chemist, Northampton.

WANTED (at once), in West-End Dispensing business, Temporary Assistant, lady or gentleman, for three or four weeks, or possibly more part-time, or less if full time; entirely or principally for clerical work. Apply by letter, giving particulars and stating salary, 55/32, Office of this Paper.

WANTED, lady Dispenser and Bookkeeper by Doctor in Midlands; hours approximately 9-12, 2-3, 6-8; state age, experience, and salary required, send photo. Apply 49/27, Office of this Paper.

WANTED, unqualified, to manage branch; Photographic knowledge; fullest particulars, etc., in first letter; Birmingham. Apply "D. E. H." (57/25), Office of this Paper.

YOUNG lady, with some experience, for quick Cash business with N.H.I. Dispensing in South Yorkshire; easy hours. Apply, with full particulars, to Jones Bros., Pharmacists, 94 High Street, Mexborough.

£208 PER ANNUM (outdoors) for a thoroughly capable first-class Dispenser; must be accustomed to high-class Dispensing. Apply 52/1, Office of this Paper.

WHOLESALE.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

LONDON Wholesale house requires competent Invoice Clerk with good experience, to take charge of Surgeons' department, invoicing, dispatching, etc. Apply by letter to "Clerical" (82/74), Office of this Paper.

MANCHESTER DISTRICT.—Wet and Dry Room, also Laboratory hands; experienced and junior. State past positions and wage required, 53/36, Office of this Paper.

COMMISSION Traveller, for Wales and South-Western counties, wanted by London firm of Manufacturing Chemists (Proprietaries); established connections. Applicants should give references and particulars about age, ground covered, lines carried, etc., to 53/9, Office of this Paper.

COSTING Clerk wanted; capable and thorough, and with good knowledge of the Drug trade. Give full particulars of experience, and state salary required, Goodall, Backhouse & Co., Leeds.

EXPERIENCED Packer for hampers, casks, etc., wanted by Wholesale Druggists; good wages for thoroughly competent man. Apply Mr. Maskell, Wright, Layman & Umney, Ltd., 50 Southwark Street, S.E. 1.

FACTORY Manager wanted by firm of Drug and Spice Grinders and Packers and Drysalters; must have initiative and be a good organiser, and if possible held similar position. Apply, stating age, present and past positions, and salary required, 83/42 Office of this Paper.

JUNIOR Typist required for order department of City Wholesale Druggist. Apply, giving full particulars and salary required, to 85/6, Office of this Paper.

LABORATORY Hand; skilled in Galenical and Toilet preparations; one with knowledge of Pills and Tablets preferred. Blackwell, Hayes & Co., Ltd., Birmingham.

LABORATORY hand required; one used to manufacture Galenicals; good prospects. State full experience and wages required, 224/47, Office of this Paper.

PILL Maker wanted; must be experienced and used to handling machinery. State previous employment and wages required, "M. D." (82/67), Office of this Paper.

PROGRESSIVE house desires the services of a young, experienced Chemist to take complete charge of the manufacture of Emulsions, Toilet preparations, and Galenicals; Major qualification preferred, and good prospects offered the right man. Full particulars as to age, experience, and salary required in the first instance to "Progress" (50/7), Office of this Paper.

QUALIFIED Assistant required by Southall Bros. & Barclay, Ltd., Wholesale Druggists, Birmingham, for the Wet Department; previous experience of Wholesale not necessary. Applicants should give references and state age and salary required.

QUALIFIED lady, thoroughly conversant with Analytical work, B.P. Standardisations, Analysis of Chemicals, Water Analysis, etc. Apply, stating experience and salary, to 85/9, Office of this Paper.

REPRESENTATIVES wanted for Liverpool and district, Yorkshire, and Northern Counties and Scotland, to carry good side line Proprietary. "E. L." (50/19), Office of this Paper.

REPRESENTATIVES wanted to carry samples of Surgical Dressings on commission only; part or whole time. Give full particulars, stating ground covered, to 82/72, Office of this Paper.

REPRESENTATIVES wanted on commission terms; well acquainted with buyers of Honey packed in jars and in bulk for manufacturing purposes; only those who can do a large business wanted by the best leading house in the trade; state full details as to experience and ground covered. The Western Honey Co., Western House, Hubert Grove, Stockwell, London, S.W. 9.

REQUIRED, two Travellers, with connection for Wholesale Chemists' Sundries; also Traveller with a knowledge of manufacture of Toilet Preparations, etc. Give full particulars, salary, etc., "T. P." (55/15), Office of this Paper.

SALES Manager required by well-known London firm of Chemical importers; must be a highly competent and experienced man, possessing a thorough knowledge of the Chemical trade; liberal terms and prospects of advancement; first-class men only need apply for this position of trust. Applications will be treated in strict confidence. Write "Chemical," c/o Pool's, 180 Fleet Street, E.C. 4.

TABLET Maker (either sex) to take charge of small Manufacturing business (new department); must be well up in Making, Granulating, and Machining with small machines; good chance of permanency; salary £3; London district. Apply "Eureka" (49/34), Office of this Paper.

TINCTURE Maker required by London Wholesale house; state age, experience, and wages required. Apply 57/31, Office of this Paper.

TOILET PREPARATIONS.—Capable man required to manufacture all kinds of Toilet Preparations. Write, stating age, experience, and remuneration expected to Box "O. A.," c/o Davies & Co., Finch Lane, E.C. 3.

WANTED, experienced Licorice Pellet Maker. Apply, with references, to 81/69, Office of this Paper.

WANTED, Traveller to call on Chemists (East Coast); must be fully conversant with Druggists' Sundries; other Agency not objected to. Apply to "Listerism" (83/27), Office of this Paper.

WANTED (immediately) for Scotland, experienced Traveller, good connection, Wholesale and Retail, for packed goods, Toilet preparations, etc. Apply 60/1, Office of this Paper.

WANTED, for Yorkshire, Lancashire, Lincolnshire, and Derbyshire district, a capable and experienced Representative for Druggists' Sundries and Packed Goods; good prospects for a live Salesman. Apply 54/35, Office of this Paper.

WANTED (immediately), a qualified Manager to take charge of an old-established Wholesale Druggist's and Manufacturing Chemist's business; experience in business management essential; permanent situation and possible partnership to suitable person. Apply, with note of references and business experience, to "X. Y.," Keith & Co., 43 George Street, Edinburgh.

WELL-KNOWN Proprietary Remedy firm in London requires two first-class Salesmen to call on and sell goods in large quantities to Chemists in provincial towns; this is no so-called "snip," calling as it does for steady hard work, but liberal remuneration is paid to men of enthusiasm, energy, and tenacity, able to prove their worth; prospects thereafter are distinctly good; write fully in strictest confidence, enclosing photo and following particulars: Age, married or single, permanent residence, previous experience (both peace-time and war-time), salary expected to commence, and other information considered essential; if photo, etc., is to be returned, please enclose stamped addressed envelope. Address, in first instance, "Chemist," Box 253, Mather & Crowther, Ltd., 10 New Bridge Street, E.C. 4.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

(Colonial, Indian and Foreign.)

FAR EAST.—One or two qualified Assistants; age 22 to 30; must have had good experience in first-class Retail business; good salary; passage paid out and home on a four or five years' agreement. Address "Export" (76/33), Office of this Paper.

FEDERATED MALAY STATES.—Qualified Assistant required; unmarried; three years' agreement; passage paid out and home; must have good health; salary first year £30, second year £32, third year £35 per month; short hours; preference given to one with knowledge of Photography and Optics, but not essential; advancement for good business man. Apply 69/41, Office of this Paper.

JAPAN.—Two qualified Assistants required for first-class Pharmacy in Yokohama; four years' agreement; salary £20 per month first year, increasing to £30; free furnished quarters with lighting and heating; passage paid out and home. Apply, with copies of testimonials and photograph, to M. H., Export Department, S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1.

JAPAN.—Wanted (immediately), Senior and Junior Assistants, single, qualified, in first-class business at Kobe; easy hours; liberal salary; passage out and home. Send for full particulars, with photo, to J. W. Franklin, c/o Bailey's Hotel, Gloucester Road, S.W. 7.

PARIS.—Capable Dispenser; qualified, and knowledge of French preferred; outdoors; hours 8.30-7, no night or Sunday duty. Write, stating experience and salary required, also send photograph, to Roberts & Co., 5 rue de la Paix, Paris.

STRAITS SETTLEMENTS.—Qualified Assistant, young, and capable of managing Branch Dispensary; four years' agreement; passage paid out and home; salary first year, £30 per month, second and third years £32 per month, fourth year £35; splendid opportunity for an energetic man; a knowledge of Optical and Photographic work desirable. Apply W. C. H., Burgoyne, Burbidges & Co., Ltd., East Ham, E. 6.

DISPENSER required for the Medical Department, East Africa Protectorate; one tour of twenty to thirty months' service, with possible extension; salary £200 per annum; a war bonus is at present in force, amounting to £37 on a salary of £200 a year for single men, and £66 a year for married men; free quarters and passages; liberal leave in England on full salary; candidates, age not under 22, must be qualified Dispensers, and possess a knowledge of the routine and clerical work in medical offices; discharged senior N.C.O.s, Royal Army Medical Corps, preferred. Apply at once by letter, stating age, whether married or single, qualifications and experience, to the Crown Agents for the Colonies, 4 Millbank, London, S.W. 1.

DRUGGIST, with full practical knowledge of the manufacture of Technical, Chemical, and Pharmaceutical Products, required by old-established works in Denmark. Offer, with age, experience, and salary required, to "Laborant" (57/21), Office of this Paper.

FOREIGN Traveller wanted for Far East and Colonies by high-class Soap and Perfumery Manufacturers; previous experience in this trade essential, and candidates with oversea connections preferred. Apply confidentially, with full particulars, to 67/31, Office of this Paper.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

[HOME.]

RETAIL.

A FEW free dates. Apply early, "Locum," 23 Cuthberts Terrace, Blackhill, Durham.

A GENTLEMAN Pharmacist, aged 39, with 22 years' first-class experience, 8 years Manager present position, desires situation as Resident Manager of good-class Pharmacy with house and good garden attached. Apply "South" (49/300), Office of this Paper.

GENTLEMAN, many years experience, requires post. Jones, 56 Portsdown Road, Maida Vale, W.

ADVERTISER seeks part-time berth; smart, well experienced man; not young; or berth where not after hours duty; would undertake management small business, purchase by instalments; West London area preferred; good references. Apply 56/14, Office of this Paper.

ADVERTISER, 30, married, unregistered, 13 years' all-round town and country experience, recently demobilised, desires permanent progressive berth; could take charge; reliable; well recommended. Particulars to "Sergt." (54/15), Office of this Paper.

ALL-ROUND Help, three days a week; unqualified; total abstainer; age 52; steady, reliable. "Rhei" (51/29), Office of this Paper.

AS Resident Manager; London district; married; qualified; permanency; thoroughly capable and reliable; abstainer. "Disengaged" (52/11), Office of this Paper.

AS qualified Manager; capable and reliable; 20 years' London and provincial experience; South Wales preferred. Apply Davies, Ty. Gwrdd, Llwyuhendy, Llanelly.

ASSISTANT; 33; unqualified; disengaged from the 25th; Dispensing and Counter, etc. "M.," 138 Maygrove Road, West Hampstead.

ASSISTANT; unqualified; 23; Dispenser and Counter; disengaged April 7th. Apply "Discharged" (49/33), Office of this Paper.

ASSISTANT (unqualified), recently demobilised, requires situation; permanency preferred; good Dispensing and Counter experience; late Head Dispenser Military General Hospital; highest references; what salary offered? disengaged. Yardley, Tai Clawdd, Ruabon, Denbighshire.

ASSISTANT, unqualified, age 24, just discharged from Army, four years R.A.M.C. Corporal Dispenser, requires situation; indoors preferred. T. Wellspring, 11 Lee Street, Limehouse, London, E. 14.

ASSISTANT; 29; unqualified; good experience; good references. "Rosiuol" (53/18), Office of this Paper.

ASSISTANT desires position London or district; 18 years' thorough all-round high-class experience; excellent references; disengaged; unqualified. Parsons, 138 High Street, Sydenham, S.E.

ASSISTANT or Managing Assistant; unqualified; thoroughly up in all branches of business; Photography, Laboratory work, etc.; middle-aged. "W. E.," c/o Lawrence, Whitehill, Bordon.

ASSISTANT (37); height 6 ft.; unqualified; married; first-class Dispensing and Counter experience; would live over if required; disengaged shortly. "A. B.," 35 Tranquil Vale, Blackheath, S.E. 3.

ASSISTANT (Senior) open for engagement; Counter preferred. Farquhar, c/o Oliver, Chemist, Maidstone.

ASSISTANT, unqualified, desires post for one month; Dispensing preferred; 11 years' thorough experience; disengaged March 24th. Apply 53/34, Office of this Paper.

ASSISTANT (20), unqualified; Counter, Dispensing, Photographic experience; South of England preferred; demobilised. Apply 53/32, Office of this Paper.

ASSISTANT; 25; 10 years' good-class Dispensing business experience, Photography; state salary offered and hours; provincial. Apply 54/22, Office of this Paper.

ASSISTANT; unqualified; 38; good experience; demobilised; disengaged. Apply "T." (56/3), Office of this Paper.

AT once, good General Assistant; 25 years' experience; kindly state salary. "Non. Reg." (51/28), Office of this Paper.

BIRMINGHAM or MIDLANDS.—Qualified; middle-aged; best experience and character. Apply 38/10, Office of this Paper.

BRANCH Manager or Drug Stores; 45; unqualified; good all-round experience Wholesale and Retail; good references; London only. Apply 56/35, Office of this Paper.

BRISTOL District.—Qualified seeks engagement as Locum. "Chemist," c/o 12 Paulto Avenue, St. John's Lane, Bristol.

CHEMIST, elderly, formerly in business, desires post in Drug Store or with Limited Co. where qualification is wanted; good Prescriber and Dispenser; near London preferred; state salary, etc. Apply 52/15, Office of this Paper.

CHEMIST'S Assistant, 30, unqualified, will be disengaged March 15; West End experience; Locum or permanency. Write to Mr. M. G. Birch, 16 Melrose Gardens, Hammersmith, W. 6.

DEMOBILISED (27), open for immediate engagements as qualified Locum; free till end of May; exceptional references; Scotland preferred. Apply 50/9, Office of this Paper.

DISCHARGED soldier (21); five years' good experience; excellent references (indentured apprenticeship); abstainer; disengaged. Evans, 158 City Road, Cardiff.

DISENGAGED 17th inst.; excellent experience and references; Locum, permanency. "Advertiser," 23a Sinclair Gardens, W. 14.

DISENGAGED, lady Assistant; 25; four years' experience; Counter and Window-dressing; in or near London preferred. Apply 54/16, Office of this Paper.

DISPENSER; unqualified; eighteen years' all-round experience with Chemists and Doctors; *qualified in America*; whole or part time. "Indian Gentleman," 61 Cirencester Street, Paddington, W. 2.

DISPENSER (Hall); good references; reliable; disengaged. "A. B.," 30 Grundy Street, Nottingham.

DISPENSER (lady), thoroughly experienced, desires post (at once); Doctor or Chemist. Apply 53/37, Office of this Paper.

DISPENSER, qualified, woman, experienced, disengaged shortly. Address 54/26, Office of this Paper.

DISPENSER-SECRETARY requires post, Southend; Hall qualification; shorthand, typewriting (100 and 40), bookkeeping; good references; either whole or part time. Miss Yeomans, 167 Brightwell Avenue, Westcliff.

ENERGETIC Locum; all-round experience; abstainer; unregistered; excellent references. "Senior," 19 Chapel Street, Uxbridge.

EXTRACTOR, Dispenser, Counterman, Prescriber, 12 years' experience in each, is open to engagement; slight knowledge of Vulcanite work; not afraid of work provided good remuneration; age 28, height 5 ft. 1 in.; excellent references; discharged; preferably London but not essential. Apply 55/3, Office of this Paper.

JUNIOR Assistant Dispenser (lady) desires position; unqualified till examination; London district. Apply, stating salary, to "M. T. H.," c/o J. E. May, Advertisement Agent, 68 Fleet Street, E.C. 4.

LADY Dispenser, qualified (Hall), desires post immediately, in Plymouth or surrounding area; Hospital, Medical man, or high-class Chemist; excellent references available; three years' experience. Apply, stating details, 49/19, Office of this Paper.

LADY Dispenser, Radiographer (Hall), now disengaged owing to demobilisation; Doctor, Hospital, Institution. 2 Selwyn Road, Upton Manor, E. 13.

LADY Dispenser (Hall), two years' experience, desires post; Doctor, Hospital, or Institution; Brighton, Hove, or near preferred. Apply 51/32, Office of this Paper.

LADY Dispenser desires post with Doctor in healthy locality. Apply Miss Crabtree, "Glencoe," Edge Lane, Stretford, Manchester.

LADY Dispenser-Bookkeeper (qualified) requires position in Medical Practice; South of England preferred; good experience; satisfactory testimonials. Miss MacMullan, Mavis House, Arundel, Sussex.

LADY Dispenser (Hall), splendid Chemist's Dispensing experience, seeks berth with Doctor or in Hospital; London or Manchester; state salary and hours. Address 55/24, Office of this Paper.

LADY Dispenser (unqualified); five years' experience; disengaged; London district preferred. Apply 55/38, Office of this Paper.

LOCUM Tenens; disengaged March 15; experienced. "L. T.," 66 Neville Street, Cardiff.

LOCUM or Manager; disengaged. Lynn, 2 Lodge, Sinclair Mansions, W. 12.

LOCUM lady Dispenser (Hall); Doctor, Hospital, or Institution; experienced. Rumney, Yalding, Kent.

LOCUM or temporary; qualified; 25; disengaged March 22nd. Please state terms, best experience, J. Cohen, 83 Spencer Place, Leeds.

LOCUM (36); disengaged; first-class experience and references. "Statim," 1 Ilbert Street, Harrow Road, London.

M.P.S. WISHES Dispensership; Institute or big firm; London preferred; interview; 11 years and 5 years last two berths. Apply 54/10, Office of this Paper.

MANAGER or Senior; 35; disengaged; abstainer; London or suburbs (20 miles); married; would reside on premises; reliable. "Chemist," 54 Buckleigh Road, Streatham, S.W.

MANAGER or Managing Assistant, 38, unqualified, desires permanency; 18 years' good-class experience in all branches; excellent references; up-to-date, active, and reliable; please state salary. Talol, 110 Hunters Road, Handsworth, Birmingham.

MANAGER; qualified; many years' first-class experience; highest references; view to succession or interest in business preferred; free early in March. Apply 52/37, Office of this Paper.

MANAGER; 29; qualified; good experience in all branches; active and reliable; disengaged. Particulars 52/4, Office of this Paper.

MANAGER, qualified, 33, married, tall, good appearance and address, abstainer, over three years present position, trebling returns, desires change; 17 years' first-class experience all branches English and Continental; with or without view to succession; good house essential; disengaged shortly. "M.P.S." (52/3), Office of this Paper.

MANAGER or Managing Assistant; unqualified; demobilised; age 39; married; 25 years' experience; active, energetic; permanency; at liberty. "H.," 3 Norwood Avenue, Southport.

MANAGER; age 43; qualified, experienced, good Salesman; Locum not objected to; Blackpool district preferred; at liberty March 25th. Address "Alpha" (53/35), Office of this Paper.

MANAGER; abstainer; thoroughly competent and most successful in increasing returns; share or salary by arrangement; unqualified; London preferred. Apply "H." (55/22), Office of this Paper.

MANAGER; qualified; quick and obliging; married, tall, age 48; disengaged shortly. Apply "Eastern" (56/20), Office of this Paper.

MANAGER or Senior; active, dependable, abstainer, 46; Minor; West-End Dispensing experience; highest reference; shortly disengaged. Apply 56/33, Office of this Paper.

MANCHESTER.—Demobilised officer (4½ years Army), qualified, 25, desires post in Manchester or Liverpool district. Apply "R.A.F." (56/32), Office of this Paper.

MORNINGS, evenings, or both; middle-aged, active; qualified; S.W. district; temporary or otherwise. "Chemist," 76 Harwood Road, S.W. 6.

PART-TIME, mornings; qualified; experienced. "Donovan," 12 Windsor Road, Ealing, W. 5.

PART-TIME.—Pharmacist (30), having disposed of own business and engaged mornings, desires to utilise spare time; London district. Please address requirements 56/100, Office of this Paper.

PHARMACIST, demobilised, who has held responsible position in R.A.M.C. over four years, desires responsible position, either Wholesale or Retail, with or without a view to succession; age 30; A1; married; best West-End and provincial experience; expert knowledge of Surgical Instruments, Anatomy, Therapeutics, and Photography; working knowledge of X-Ray work and Bacteriology; used to controlling staff; good organiser; excellent references. Apply Manager," Fairfield, Grange-over-Sands.

QUALIFIED, 32, recently demobilised, 4½ years' service, seeks situation as Manager or Senior in good-class business with view to permanency; best West-End Dispensing and Counter experience. State full particulars and hours of business to "M.P.S." (49/31), Office of this Paper.

QUALIFIED; 20 years' experience; 6 ft.; disengaged end of month; permanency; good references. "Rhei" (52/13), Office of this Paper.

QUALIFIED (30), with view to early succession in good business; South-Eastern Counties; first-class references; cash terms. Replies to 55/14, Office of this Paper.

SCOTSMAN, qualified, 39, married, present position 12 years Manager, exceptional experience, highest references, desires change; Managership with interest or Partnership with view to succession entertained; position must offer first-class prospects in return for ability and initiative; Optical experience; healthy district desirable. Apply "Edina" (54/17), Office of this Paper.

SENIOR or Managing Assistant; 42; tall, single; 25 years' high-class Store and Dispensing experience; just demobilised after 4½ years as Dispenser with B.E.F. Apply 49/20, Office of this Paper.

SENIOR; 34 years, married, 6 ft.; Dispensing, Photography, good Salesman, Dental Operator, Fillings, Impressions; part or full time; London district preferred; awaiting demobilisation. Toes, 52nd Stationary Hospital, Le Havre.

SMART Assistant; unqualified; 15 years' experience in Drugs, Sundries, Surgical, Toilet, Perfumery, etc.; good Window-dresser. "Salol," 48 Lealand Road, N. 15.

UNQUALIFIED, ex-officer, 28, 6 ft., 8 years' first-class experience, desires situation (outdoors) in about a fortnight; just demobilised. "Lieutenant," 7 Church Close, Boston.

YOUNG lady Dispenser (Hall) desires post with Chemist or Doctor within easy reach of Barnes or Hammersmith. Apply "E. S.," 73 Lonsdale Road, Barnes.

WHOLESALE.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

A PHARMACEUTICAL Chemist of exceptional experience and ability is open to a permanent engagement in a suitable capacity in Wholesale or Retail; London preferred. Reply 53/3, Office of this Paper.

ADVERTISER, Ph.C., experienced traveller, and with best Retail knowledge, seeks berth, in or out; excellent references. Apply 38/100, Office of this Paper.

AS Representative or position of trust; smart Salesman; 15 years' experience Drugs, Sundries, Surgical, Toilet, Perfumery. Crowe, 48 Lealand Road, Stamford Hill.

AS Stockkeeper; fully experienced Sundries, Drugs, Patents, and Packed Goods, etc.; excellent references. Apply 50/15, Office of this Paper.

BIRMINGHAM.—Competent Analyst and Technical Supervisor, with 20 years' experience manufacturing Galenicals, fine Chemicals, Malt Extract, Surgical Dressings, Compressed Tablets, Capsules, Essences, Varnishes, Disinfectants, Toilet Preparations, etc.; requires responsible position; knowledge of modern plant and processes; highest credentials. Apply 53/24, Office of this Paper.

CHEMIST (qualified) seeks confidential post with progressive firm; experience covers control of Manufacturing Specialities, Toilet Preparations, Galenicals, etc., control of plant, staff, distribution of proprietaries; would organise export or import trade; buyer's or part outdoors position entertained; progressive salary and commission on results desired. Full particulars first letter 50/8, Office of this Paper.

FIRST-CLASS, experienced Travelling Representative, shortly disengaged, seeks similar appointment. Apply 53/10, Office of this Paper.

LABORATORY Assistant desires berth in Wholesale house; four years' experience in the manufacture of Galenicals, Tinctures, Infusions, etc.; London or district preferred. Apply 53/13, Office of this Paper.

MEDICAL Practitioner, aged 39, giving up practice, desires position in a Wholesale Druggists'; has business abilities; capital to invest. Reply to "D. C." (45/30), Office of this Paper.

MEDICINAL Tablet Maker, many years' experience, capable of taking charge of plant and control staff, seeks situation. Apply 85/65, Office of this Paper.

PART-TIME.—Pharmaceutical Chemist (Medallist Chemistry) desires post; London; mornings or afternoons; analysis, manufacturing, or investigations. Please address requirements, 56/10, Office of this Paper.

PHARMACEUTICAL Student (24) seeks post in Laboratory or as Dispenser; disengaged; five years' experience. Apply, stating salary, "Rhei" (56/1), Office of this Paper.

PHARMACIST, with experience in Analysis and Bacteriology, requires situation in Laboratory or Manufacturing house. Apply "B.C.S." (46/16), Office of this Paper.

QUALIFIED seeks position other than Retail; Eastern and Colonial experience; small capital available. "Mataram" (56/32), Office of this Paper.

RELIABLE Sales Company, with offices in New York, wishes to represent English manufacturer of products to be sold to American Druggists and department stores; they will do so on commission, permitting manufacturer to ship and bill direct, or arrange to carry stock, billing, and collecting for manufacturer; on goods which are to be advertised Sales Company will co-operate, if desired, with leading advertising agency in marketing. Give as full particulars as possible in first letter, and we will do the same. Winthrop Sales Company, 116 West 32nd Street, New York, N.Y., U.S.A.

REPRESENTATIVE Pharmacist, desiring change, wishes to represent good house; Proprietaries, Drugs, or Sundries; thorough knowledge of the trade. Apply 42/26, Office of this Paper.

SCOTSMAN, good connection Edinburgh and East Coast, desires position as Representative or post of trust; Wholesale and Retail experience; good references; resident Edinburgh. Apply 51/36, Office of this Paper.

TRAVELLER (50) requires sound selling line for London; commission and part expenses; 20 years' experience; A1 references. Apply 53/19, Office of this Paper.

TRAVELLER, Birmingham and Midlands, desires commissions on Druggist Sundries, Packed Goods, Essences, Drugs, Chemicals, etc.; good credentials. Apply 54/28, Office of this Paper.

TRAVELLER, with good connection in South Wales, desires two first-class lines on commission; only good selling lines entertained. Kindly state terms and full particulars to 56/12, Office of this Paper.

TRAVELLER, with eight years' connection among Doctors and Chemists in Scotland, desires appointment or agency. Apply 54/6, Office of this Paper.

WAREHOUSE Manager or position of trust; capable, energetic; many years' similar experience; home and export; first-class references. "A. B." (52/38), Office of this Paper.

YOUNG graduated Chemist, thorough knowledge Chemicals, wishes to Represent (home or abroad) substantial Chemical house; travelled extensively; bachelor, 29; would pay handsome fee to anyone introducing him to firm which would lead to appointment. Apply 48/23, Office of this Paper.

YOUNG Man (26), demobilised; knowledge of Drugs, Packed Goods, Patents, etc.; has been Chemist's Assistant; not afraid of work but desires chance. Further particulars on application, Payne, 18 Harpour Road, Barking, Essex.

YOUNG Pharmacist, possessing several years' Retail and Wholesale experience, seeks sound commercial position with Wholesale firm; able to supervise staff; good appearance and address; salary must be good and progressive. Apply "C. L." (56/5), Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Stock and Share Brokers, Bank Chambers, Blackheath, S.E. 3. Established 1898. Telephone: 81 Lee Green.

Shares for Sale (free of commission, subject).—£600 Allenbury Debentures, 81½; 254 Camwal Prefs., 8*s.* 6*d.*, 12 Ordinary, 1*s.* 6*d.*; 100 Borax Deferred, 43*s.* 3*d.* c.d.; 138 Boots Drug 7% "C" Preferred Ordinary, 22*s.* 9*d.*, 145 7% "B" Preferred Ordinary, 23*s.* 6*d.*; 200 Boots Southern 6% "C" Prefs., 20*s.* 7½*d.*, 50 "B," 20*s.* 9*d.*; 200 Boots Western 6% "A" Prefs., 20*s.* 10½*d.*; 20 Boots Eastern 5% "B" Prefs., 17*s.* 10½*d.*; 110 Lewis & Burrows 6% Prefs., 15*s.* 10½*d.*; 500 Sanitas 9% Prefs., 27*s.* 6*d.*; 50 W. J. Bush £5, 5% Prefs., 77*s.* 6*d.* c.d. April; 212 Homocea Prefs., 11*d.*

Wanted (subject).—Allenbury Prefs.; Idris Prefs. and Debentures; Wright Layman Prefs.; 100 A. J. White, 5*s.* 6*d.*

Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

BOTTLES, about 600, 340 stoppered; also Jars and Sundries. What offers? List from Adams, "Bossinney," Monkhams Avenue, Woodford Green, Essex.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

SHOWCASES AND SHOP FITTINGS.—Several fine Silent Salesman Showcases and Counters; quantity of useful Shop fittings; low prices. Write inquiries, Philip Josephs & Sons, Ltd., 93 Old Street, London, E.C. 1.

SODA Bicarbonate; refined; 2-cwt. bags; 10 tons; the lot £62, f.o.r. Lancs; cash with order. Apply 54/36, Office of this Paper.

SURPLUS STOCK.—Saccharin, Monsanto, Insoluble 550, two 25-lb., five 10-lb. original tins, £5 per lb.; less than duty; must be cleared. Apply 33/14, Office of this Paper.

WHAT offers? One gross Tooth-brushes, good quality, bone handles, retailing 1*s.* to 1*s.* 9*d.* each; six assorted samples 5*s.*; four dozen ladies' Xylonite Dressing and Rake Combs, black and white, 8 in., 10*s.* doz. (sample half-dozen 5*s.* 3*d.*); four dozen small Tooth Combs, nice finish, good size, 7*s.* doz. (sample 8*d.*), post free. Aldous, 48 Harpenden Road, West Norwood, S.E. 27.

10 GROSS of 4-row wax backbone handle Tooth-brushes, 8*s.* per doz.; splendid value; any quantity supplied. T. A. Harrison, Pharmaceutical Chemist, Goodmayes.

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One halfpenny per word with name and address. One penny per word if we register the address and attach a number. No advertisement inserted for less than 6*d.*

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IRON Dental Chair; up and down movements; £6. Harries, 218 Heathfield Road, Handsworth, Birmingham.

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FOR Sale, 1 lb. Quinine in Powder form. What offers? Davies, 81 Kingsgate Road, N.W. 6.

OFFERED, 2½ lb. Menthol Crystals, about ⅛ oz. A. & H. Otto of Rose, ¼ lb. Ol. Bergamot. Super, 1 lb. Tr. Strophanti B.P. Crane & Co., Lambeth Walk, S.E.

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OPTICAL Trial Case with cones, cylinders, etc., in new condition, £6 10*s.* Harries, 218 Heathfield Road, Handsworth, Birmingham.

MISCELLANEOUS.

1 GROSS Lozenge Tins, flat, 4-oz. capacity, 12*s.* Austin, Chemist, Saltley, Birmingham.

AIR CUSHIONS, circular, 18 inch, Maw's; seven for sale; new and clean. Offers to 39/23, Office of this Paper.

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TOOTH-BRUSHES; six gross; worth 1*s.* 6*d.*; four row plain bone; 10*s.* dozen, carriage paid; sample, P.O. 1*s.* Tweddell, 55 Ellison Street, Jarrow.

TOOTH-POWDER Tins (decorated), 2 oz., about 16 gross, suitable for sixpenny line. Enclose stamp for sample, "Florence," "Ellesmere," Henry Road, Slough, Bucks.

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MIXER and Sifter, capacity 60 or 80 lb. Shawyer, Swindon, Wilts.

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DRUG Drawers, 13 ft., glass-fronted Counter, fitted, Shop Rounds, etc. Powell, Grangetown, Yorks.

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LOZENGE-PASTE Mixer for 14 lb., power or hand; strong blades. "C. H. G.," 154 Fulham Palace Road, W. 6

SECOND-HAND Dispensing Scales; also Counter Scales; must be in good condition. Ashfield, Chemist, Rhyl

UPRIGHT Showcase, about 3 ft. long by 7 ft. high, in good condition. Evans, City Road Pharmacy, Cardiff.

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REVOLVING Copper Pan for Tablet Coating; also Polishing Pan. Full particulars to 81/690, Office of this Paper.

"PHARMACEUTICAL Formulas," by Peter MacEwan, 1914 edition; 20*s.* offered for clean copy. Reply 49/23, Office of this Paper.

HOMŒOPATHY.—Advertiser, just starting, requires Window-show Materials (not advertised remedies), Bust of Hahnemann, etc. Apply 52/9, Office of this Paper.

2 5-GRAIN Pill Machines, 2 Cachet Machines (Maw's), large Mortars, 2 1914 B.P.'s, 2 4-gall. Swan Neck Carboys, Cash Register with detail strip, white Mexican Bottles. W. Bennison, 133 King's Road, Chelsea, S.W. 3.

ANY Shop Fittings, Dispensing Screen, Showcases, Wall Cases, Counter and Counter Cases, Silent Salesman, Shop Rounds, Cash Register (National), 6-oz. Bottles, Vials, saleable goods; cash ready. "Immediate," 211 King Street, Hammersmith.

THEOCIN Sodium Acetate, ¼ oz. or ½ oz.; state price. Apply 24/9, Office of this Paper.

USED (or job lots) Tins, Drums, etc.; By-products; highest cash. "Eastleigh" Paint Works, Hull.

50 GROSS 2 drm. Vials. Send sample and price to Chemist, 67 St. Paul's Avenue, Willesden, N.W. 2.

WANTED, Radium Salt, pure or Residues, old Applicators, etc. Apply Harrison Glew, Radium Laboratories, 156 Clapham Road, S.W. 9.

OPTICAL books, Minor, Major, Chemists' books; send prepaid for valuation, cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, S.W. 4.

LARGE quantities of finely ground Kieselguhr or Fossil Meal; must be of light gravity and colour, and as free as possible from clay and chalk. Quote full details and price, along with samples, to Turner Brothers Asbestos Co., Ltd., "Purchase" Department. Rochdale.

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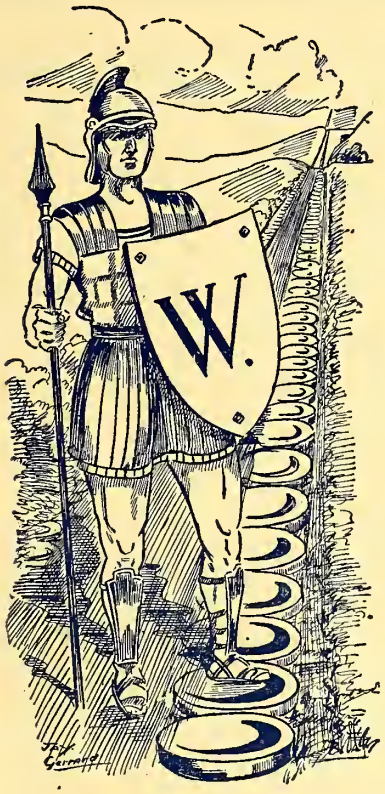

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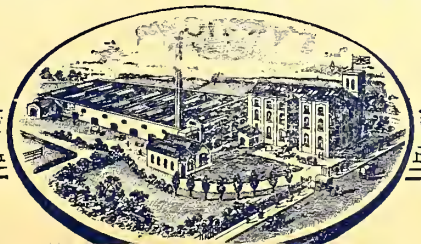

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